CHAPTER 29



ELECTRICIAN'S MATE (EM)

NAVPERS 18068-29F CH-43

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NAVY ENLISTED OCCUPATIONAL STANDARDS

FOR

ELECTRICIAN'S MATE(NUCLEAR) EM(NUC)



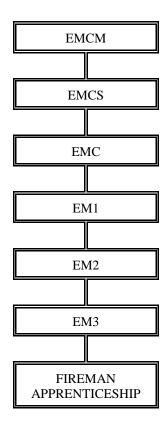
SCOPE OF RATING

<u>Electrician's Mates (Nuclear) EM(NUC)</u> stand watch on generators, switchboards, control equipment, electrical equipment and shutdown reactor plants; operate and perform organizational and intermediate maintenance on power and lighting circuits, electrical fixtures, motors, generators, voltage and frequency regulators, controllers, distribution switchboards, and other electrical equipment; test for short circuits, grounds or other casualties; and rebuild electrical equipment, including solid state circuitry elements in an electrical shop.

These Occupational Standards are to be incorporated in Volume I, Part B, of the Manual of Navy Enlisted Manpower and Personnel Classifications and Occupational Standards (NAVPERS 18068F) as Chapter 29.

GENERAL INFORMATION

CAREER PATTERN



Normal path of advancement to Chief Warrant Officer and Limited Duty Officer categories can be found in OPNAVINST 1420.1.

For rating entry requirements, refer to MILPERSMAN 1306-500, 1306-502, 1306-504, and 1306-618.

SAFETY

The observance of proper safety precautions in all areas is an integral part of each billet and the responsibility of every Sailor; therefore, it is a universal requirement for all ratings.

Job TitleJob CodeSubmarine Propulsion Plant Electrical Operator003777

<u>Job Family</u> <u>NOC</u> <u>Short Title (30 Characters)</u> <u>Short Title (10 Characters)</u>

Production 5100-8013.00 SUB PROPULSION PLANT ELECT OP SS PPE OP

<u>Pay Plan Career Field Proficiency Level Other Relationships and Rules:</u>

Enlisted EM(NUC) A/J NEC 3354

Job Description

Submarine Propulsion Plant Electrical Operators perform operations and basic preventive maintenance of electrical distribution systems, motors and controllers, electrical generators, lighting systems, alarm and indicating systems, machinery vibration analysis equipment, throttle control systems, and other electrical and electronic support equipment. They possess a thorough understanding of reactor, electrical, and mechanical theory involved in the operation of nuclear reactors, steam plants, and auxiliary equipment. They also possess a detailed knowledge of chemistry and radiological controls associated with the nuclear reactor. Electrical Operators supervise operations of the shutdown reactor plant. This job performs the critical work functions to move naval tactical forces and repair/maintain equipment.

DoD Relationship O*NET Relationship

Title and Group: Code and Area: Title and SOC Code: Name and Family Code:

 Nuclear Power
 166100
 Power Plant Operators
 Production

 166
 16
 51-8013.00
 51

AUXILIARY ELECTRICAL EQUIPMENT

<u>Paygrade</u> E4	<u>Task Type</u> CORE	<u>Task Statements</u> Adjust alarm setpoints	<u>Skills</u>	<u>Abilities</u>
			Systems Evaluation	Auditory Attention
77.5	CODE		Operation Monitoring	Reaction Time
E5	CORE	Adjust control panel interl		Manual Dantanita
			Systems Evaluation	Manual Dexterity Reaction Time
E5	CORE	Adjust control panel opera	Operation Monitoring	Reaction Time
EJ	CORE	Aujust control panel opera	Systems Evaluation	Arm-Hand Steadiness
			Operation Monitoring	Reaction Time
E5	CORE	Adjust control panel opera		Reaction Time
		3	Systems Evaluation	Auditory Attention
			Operation Monitoring	Reaction Time
E4	CORE	Clean alarm and indicating	gpanels	
			Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Clean atmosphere control	equipment electrical components	
			Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Clean electrically operated		
			Equipment Maintenance	Near Vision
E4	CODE	C1 1, 1	Management of Material Resources	Finger Dexterity
E4	CORE	Clean ultrasonic cleaner co		M W
			Equipment Maintenance	Near Vision Finger Dexterity
E4	CORE	Clean control panel cabine	Management of Material Resources	ringer Dexiettiy
124	CORE	Clean control panel cabille	Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Clean control panel operat		1 inger Desiertiy
D.	COILE	Cican control panel operat	Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Clean air compressor elect		
		•	Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Clean air conditioning sys	tem electrical components	
			Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Clean Collection, Holding	, and Transfer (CHT) electrical component	
			Equipment Maintenance	Near Vision
E4	CODE		Management of Material Resources	Finger Dexterity
E4	CORE	Clean dehydrator electrica		A7 T7' '
			Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity

E4	CORE	Clean distilling plant electrical components	M W.
E4	CORE	Equipment Maintenance Management of Material Resources Clean refrigeration system electrical components	Near Vision Finger Dexterity
L	CORE	Equipment Maintenance Management of Material Resources	Near Vision Finger Dexterity
E4	CORE	Clean ships heating system electrical components Equipment Maintenance	Near Vision
E4	CORE	Management of Material Resources Clean welding equipment electrical components Equipment Maintenance	Finger Dexterity Near Vision
E4	CORE	Management of Material Resources Clean electrical panel components	Finger Dexterity
E4	CORE	Equipment Maintenance Management of Material Resources Clean electrical panel interiors	Near Vision Finger Dexterity
E4	CORE	Clean electrical panel interiors Equipment Maintenance Management of Material Resources	Near Vision Finger Dexterity
E4	CORE	Clean electrostatic precipitators Equipment Maintenance	Near Vision
E4	CORE	Management of Material Resources Clean galley equipment electrical components Equipment Maintenance	Finger Dexterity Near Vision
E4	CORE	Management of Material Resources Clean laundry equipment	Finger Dexterity
		Equipment Maintenance	Near Vision
E4	CORE	Management of Material Resources Clean Programmable Logic Controllers (PLC)	Finger Dexterity
		Equipment Maintenance Management of Material Resources	Near Vision Finger Dexterity
E4	CORE	Clean sensing and control electrical devices	
		Equipment Maintenance Management of Material Resources	Near Vision Finger Dexterity
E4	CORE	Clean soldered electrical connections	
		Equipment Maintenance Management of Material Resources	Near Vision Finger Dexterity
E4	CORE	Inspect alarm and indicating systems Operation Monitoring	Near Vision
		Quality Control Analysis	Written Comprehension
E4	CORE	Inspect atmosphere control equipment electrical components Operation Monitoring	Near Vision
		Quality Control Analysis	Written Comprehension
E4	CORE	Inspect electrically operated valve components Operation Monitoring	Near Vision
E4	CORE	Quality Control Analysis	Written Comprehension
E4	CORE	Inspect ultrasonic cleaner components Operation Monitoring	Near Vision
E4	CODE	Quality Control Analysis Inspect control panel operating mechanisms	Written Comprehension
E4	CORE	Operation Monitoring	Near Vision
E4	CORE	Quality Control Analysis Inspect control panel wiring and connections	Written Comprehension
124	COKE	Operation Monitoring	Near Vision
E4	CORE	Quality Control Analysis Inspect air compressor electrical components	Written Comprehension
2.	COLL	Operation Monitoring	Near Vision
E4	CORE	Quality Control Analysis Inspect air conditioning system electrical components	Written Comprehension
		Operation Monitoring	Near Vision
E4	CORE	Quality Control Analysis Inspect Collection, Holding, and Transfer (CHT) electrical compone	Written Comprehension ents
		Operation Monitoring	Near Vision
E4	CORE	Quality Control Analysis Inspect dehydrator electrical components	Written Comprehension
		Operation Monitoring Quality Control Analysis	Near Vision Written Comprehension
E4	CORE	Inspect distilling plant electrical components	•
		Operation Monitoring Quality Control Analysis	Near Vision Written Comprehension
		Quality Control Interpret	

E4	CORE	Inspect refrigeration system electrical components	
		Operation Monitoring	Near Vision
E4	CORE	Quality Control Analysis	Written Comprehension
E4	CORE	Inspect ships heating electrical components	Near Vision
		Operation Monitoring Quality Control Analysis	Written Comprehension
E4	CORE	Inspect welding equipment electrical components	written Comprehension
L4	COKL	Operation Monitoring	Near Vision
		Quality Control Analysis	Written Comprehension
E4	CORE	Inspect electrical panel components	www.comprenension
		Operation Monitoring	Near Vision
		Quality Control Analysis	Written Comprehension
E4	CORE	Inspect electrostatic precipitators	1
		Operation Monitoring	Near Vision
		Quality Control Analysis	Written Comprehension
E4	CORE	Inspect galley equipment electrical components	
		Operation Monitoring	Near Vision
		Quality Control Analysis	Written Comprehension
E4	CORE	Inspect laundry equipment	
		Operation Monitoring	Near Vision
E4	CODE	Quality Control Analysis	Written Comprehension
E4	CORE	Inspect Programmable Logic Controllers (PLC)	Maan Vision
		Operation Monitoring Quality Control Analysis	Near Vision Written Comprehension
E4	CORE	Inspect sensing and control electrical devices	written Comprehension
£4	COKE	Operation Monitoring	Near Vision
		Quality Control Analysis	Written Comprehension
E4	CORE	Inspect soldered electrical connections	written Comprehension
E.	COILE	Operation Monitoring	Near Vision
		Quality Control Analysis	Written Comprehension
E4	CORE	Operate alarm and indicating systems	
		Operation and Control	Hearing Sensitivity
		Operation Monitoring	Near Vision
E4	CORE	Operate Interior Communications (IC) equipment	
		Operation and Control	Arm-Hand Steadiness
		Operation Monitoring	Manual Dexterity
E4	CORE	Operate submarine habitability systems	
		Operation and Control	Arm-Hand Steadiness
		Operation Monitoring	Manual Dexterity
E5	CORE	Repair alarm and indicating systems	F. D
		Repairing	Finger Dexterity
E.F	CORE	Equipment Selection	Near Vision
E5	CORE	Repair atmosphere control equipment Repairing	Finaar Daytarity
		Repairing Equipment Selection	Finger Dexterity Near Vision
E4	CORE	Repair electrically operated valve components	ivear vision
L4	COKL	Repair electrically operated valve components Repairing	Finger Dexterity
		Equipment Selection	Near Vision
E4	CORE	Repair ultrasonic cleaner components	Treat vision
		Repairing	Finger Dexterity
		Equipment Selection	Near Vision
E5	CORE	Repair electrical circuits	
		Repairing	Finger Dexterity
		Equipment Selection	Near Vision
E5	CORE	Repair electrical components	
		Repairing	Finger Dexterity
		Equipment Selection	Near Vision
E4	CORE	Repair air compressor electrical components	
		Repairing	Finger Dexterity
E4	CORE	Equipment Selection	Near Vision
E4	CORE	Repair air conditioning electrical components	Ei D
		Repairing Equipment Selection	Finger Dexterity
E4	COPE	Equipment Selection Penair Collection, Holding, and Transfer (CHT) electrical compon	Near Vision
E4	CORE	Repair Collection, Holding, and Transfer (CHT) electrical compon	
		Repairing Equipment Selection	Finger Dexterity Near Vision
E4	CORE	Repair dehydrator electrical components	ivear vision
۵.	CORL	Repair denydrator electrical components Repairing	Finger Dexterity
		Equipment Selection	Near Vision
		1	

E4	CORE	Repair distilling plant electrical components	
		Repairing	Finger Dexterity
		Equipment Selection	Near Vision
E4	CORE	Repair refrigeration electrical components	
		Repairing	Finger Dexterity
		Equipment Selection	Near Vision
E4	CORE	Repair ships heating electrical components	
		Repairing	Finger Dexterity
		Equipment Selection	Near Vision
E4	CORE	Repair welding equipment electrical components	
		Repairing	Finger Dexterity
		Equipment Selection	Near Vision
E4	CORE	Repair electrostatic precipitators	
		Repairing	Finger Dexterity
		Equipment Selection	Near Vision
E5	CORE	Repair galley equipment	
		Repairing	Finger Dexterity
		Equipment Selection	Near Vision
E4	CORE	Repair laundry equipment	1,007, 1,510,1
E.	CORE	Repairing	Finger Dexterity
		Equipment Selection	Near Vision
E4	CORE	Repair Programmable Logic Controllers (PLC)	ivear vision
L4	COKE	Repair 1 Togrammable Logic Controllers (1 LC) Repairing	Finger Dexterity
		Equipment Selection	Near Vision
E4	CORE		Near vision
£4	CORE	Repair sensing and control electrical devices	E' D . '
		Repairing	Finger Dexterity
E4	CODE	Equipment Selection	Near Vision
E4	CORE	Replace soldered electrical connections	4 II 10 P
		Equipment Selection	Arm-Hand Steadiness
7.4	CODE	Technology Design	Finger Dexterity
E4	CORE	Solder electrical connections	
		Equipment Selection	Arm-Hand Steadiness
		Technology Design	Finger Dexterity
E5	CORE	Test alarm and indicating systems	
		Operation Monitoring	Auditory Attention
		Quality Control Analysis	Manual Dexterity
E4	CORE	Test electrically operated valve components	
		Operation Monitoring	Problem Sensitivity
		Quality Control Analysis	Manual Dexterity
E4	CORE	Test ultrasonic cleaner components	
		Operation Monitoring	Problem Sensitivity
		Quality Control Analysis	Manual Dexterity
E5	CORE	Test control panel operation	
		Operation Monitoring	Problem Sensitivity
		Quality Control Analysis	Manual Dexterity
E4	CORE	Test air compressor electrical components	
		Operation Monitoring	Problem Sensitivity
		Quality Control Analysis	Manual Dexterity
E4	CORE	Test air conditioning electrical components	
		Operation Monitoring	Problem Sensitivity
		Quality Control Analysis	Manual Dexterity
E4	CORE	Test Collection, Holding, and Transfer (CHT) electrical components	ŕ
2.	COLL	Operation Monitoring	Problem Sensitivity
		Quality Control Analysis	Manual Dexterity
E4	CORE	Test dehydrator electrical components	munici Benerity
E.	CORE	Operation Monitoring	Problem Sensitivity
		Quality Control Analysis	Manual Dexterity
E4	CORE	Test distilling plant electrical components	тапиа Беленіу
124	COKE	Operation Monitoring	Droblem Consitivity
			Problem Sensitivity
E4	CORE	Quality Control Analysis Test refrigeration electrical components	Manual Dexterity
E4	CORE		D 11 G 1211
		Operation Monitoring	Problem Sensitivity
F.4	CODE	Quality Control Analysis	Manual Dexterity
E4	CORE	Test ships heating electrical components	D 11 G 11 1
		Operation Monitoring	Problem Sensitivity
T-1	905-	Quality Control Analysis	Manual Dexterity
E4	CORE	Test welding equipment electrical components	n 11 a
		Operation Monitoring	Problem Sensitivity
		Quality Control Analysis	Manual Dexterity

E5	CORE	Test electrical panels	D. 11. (6. 11. 1
E4	CORE	Operation Monitoring Quality Control Analysis Test electrostatic precipitators	Problem Sensitivity Manual Dexterity
		Operation Monitoring	Problem Sensitivity
E4	CORE	Quality Control Analysis Test laundry equipment	Manual Dexterity
		Operation Monitoring	Problem Sensitivity
E4	CORE	Quality Control Analysis Test Programmable Logic Controllers (PLC)	Manual Dexterity
LŦ	CORL	Operation Monitoring	Problem Sensitivity
E4	CORE	Quality Control Analysis Test sensing and control electrical devices	Manual Dexterity
£ 4	CORE	Operation Monitoring	Problem Sensitivity
77.5	CODE	Quality Control Analysis	Manual Dexterity
E5	CORE	Troubleshoot alarm and indicating systems Troubleshooting	Deductive Reasoning
		Complex Problem Solving	Fluency of Ideas
E5	CORE	Troubleshoot atmosphere control equipment Troubleshooting	Deductive Reasoning
		Complex Problem Solving	Fluency of Ideas
E4	CORE	Troubleshoot electrically operated valve components	
		Troubleshooting Complex Problem Solving	Deductive Reasoning Fluency of Ideas
E4	CORE	Troubleshoot ultrasonic cleaner components	1 mency of facus
		Troubleshooting	Deductive Reasoning
E5	CORE	Complex Problem Solving Troubleshoot electrical components	Fluency of Ideas
		Troubleshooting	Deductive Reasoning
E4	CORE	Complex Problem Solving Troubleshoot air compressor electrical components	Fluency of Ideas
L+	CORE	Troubleshoot all compressor electrical components Troubleshooting	Deductive Reasoning
E4	CODE	Complex Problem Solving	Fluency of Ideas
E4	CORE	Troubleshoot air conditioning electrical components Troubleshooting	Deductive Reasoning
		Complex Problem Solving	Fluency of Ideas
E4	CORE	Troubleshoot Collection, Holding, and Transfer (CHT) system of Troubleshooting	electrical components Deductive Reasoning
		Complex Problem Solving	Fluency of Ideas
E4	CORE	Troubleshoot dehydrator electrical components	
		Troubleshooting Complex Problem Solving	Deductive Reasoning Fluency of Ideas
E4	CORE	Troubleshoot distilling plant electrical components	, e ,
		Troubleshooting Complex Problem Solving	Deductive Reasoning Fluency of Ideas
E4	CORE	Troubleshoot refrigeration electrical components	r wency of weas
		Troubleshooting	Deductive Reasoning
E4	CORE	Complex Problem Solving Troubleshoot ships heating electrical components	Fluency of Ideas
		Troubleshooting	Deductive Reasoning
E4	CORE	Complex Problem Solving Troubleshoot welding equipment electrical components	Fluency of Ideas
LŦ	CORE	Troubleshoot welding equipment electrical components Troubleshooting	Deductive Reasoning
E4	CODE	Complex Problem Solving	Fluency of Ideas
E4	CORE	Troubleshoot electrostatic precipitators Troubleshooting	Deductive Reasoning
		Complex Problem Solving	Fluency of Ideas
E5	CORE	Troubleshoot galley equipment Troubleshooting	Deductive Reasoning
		Complex Problem Solving	Fluency of Ideas
E4	CORE	Troubleshoot laundry equipment	Dadarda P
		Troubleshooting Complex Problem Solving	Deductive Reasoning Fluency of Ideas
E4	CORE	Troubleshoot Programmable Logic Controllers (PLC)	
		Troubleshooting Complex Problem Solving	Deductive Reasoning Fluency of Ideas
E4	CORE	Troubleshoot sensing and control electrical devices	r mency of taeas
		Troubleshooting	Deductive Reasoning
		Complex Problem Solving	Fluency of Ideas

CASUALTY CONTROL

<u>Paygrade</u>	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Combat battery well casu		
			Equipment Selection	Deductive Reasoning
			Judgment and Decision Making	Reaction Time
E4	CORE	Combat engineering plant		
			Equipment Selection	Deductive Reasoning
			Judgment and Decision Making	Reaction Time
E4	CORE	Combat reactor plant casu		
			Equipment Selection	Deductive Reasoning
			Judgment and Decision Making	Reaction Time
E4	CORE	Combat submarine hydra		
			Equipment Selection	Deductive Reasoning
			Judgment and Decision Making	Reaction Time
E4	CORE	Combat submarine propu		
			Equipment Selection	Deductive Reasoning
			Judgment and Decision Making	Reaction Time
E4	CORE	Combat submarine toxic		
			Equipment Selection	Deductive Reasoning
			Judgment and Decision Making	Reaction Time
E4	CORE	Combat submarine weapo		
			Equipment Selection	Deductive Reasoning
			Judgment and Decision Making	Reaction Time
E4	CORE	Identify and isolate deran	ged or damaged electrical equipment	
			Complex Problem Solving	Originality
			Critical Thinking	Deductive Reasoning
E4	CORE	Operate submarine salvag	ge systems	
			Operation and Control	Arm-Hand Steadiness
			Operation Monitoring	Manual Dexterity
E4	CORE	Repair deranged or damage	ged electrical equipment	
			Repairing	Finger Dexterity
			Equipment Selection	Near Vision
E4	CORE	Test deranged or damage	d electrical equipment	
			Operation Monitoring	Problem Sensitivity
			Quality Control Analysis	Manual Dexterity
E4	CORE	Treat victims of radiation	poisoning	
			Judgment and Decision Making	Deductive Reasoning
			Service Orientation	Memorization
E4	CORE	Troubleshoot deranged or	damaged electrical equipment	
		_	Troubleshooting	Deductive Reasoning
			Complex Problem Solving	Fluency of Ideas
		CIRC	THT RREAKERS	

CIRCUIT BREAKERS

<u>Paygrade</u>	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
E5	CORE	Adjust circuit breaker ope	erating mechanisms	
			Systems Evaluation	Arm-Hand Steadiness
			Operation Monitoring	Manual Dexterity
E4	CORE	Clean circuit breaker con	tact surfaces	
			Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Clean circuit breaker ope	rating mechanisms	
			Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Inspect circuit breaker au	xiliary contacts	
			Operation Monitoring	Near Vision
			Quality Control Analysis	Written Comprehension
E4	CORE	Inspect circuit breaker co	ntact surfaces	
			Operation Monitoring	Near Vision
			Quality Control Analysis	Written Comprehension
E4	CORE	Inspect circuit breaker op	erating mechanisms	
			Operation Monitoring	Near Vision
			Quality Control Analysis	Written Comprehension
E4	CORE	Inspect circuit breaker wi	ring and connections	
			Operation Monitoring	Near Vision
			Quality Control Analysis	Written Comprehension

E5	CORE	Repair circuit breakers		
			Repairing	Finger Dexterity
			Equipment Selection	Near Vision
E5	CORE	Test circuit breaker ope	erating mechanisms	
			Operation Monitoring	Problem Sensitivity
			Quality Control Analysis	Manual Dexterity
E5	CORE	Test circuit breakers		
			Operation Monitoring	Problem Sensitivity
			Quality Control Analysis	Manual Dexterity

ELECTRICAL INSTALLATIONS

<u>Paygrade</u> F4	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Clean grounding straps	Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Conduct shore power grou		Tinger Desierny
D.	CORE	conduct shore power grow	Equipment Maintenance	Problem Sensitivity
			Quality Control Analysis	Written Comprehension
E4	CORE	Fabricate shore power cal		with comprehension
			Equipment Selection	Arm-Hand Steadiness
			Technology Design	Manual Dexterity
E4	CORE	Inspect grounding straps	0, 0	,
		1 6 6 1	Operation Monitoring	Near Vision
			Quality Control Analysis	Written Comprehension
E4	CORE	Inspect shore power cable	s	•
		-	Operation Monitoring	Near Vision
			Quality Control Analysis	Written Comprehension
E4	CORE	Install permanent cables		
			Equipment Selection	Trunk Strength
			Installation	Manual Dexterity
E4	CORE	Install shore power cables	1	
			Equipment Selection	Trunk Strength
			Installation	Manual Dexterity
E4	CORE	Remove shore power cabl		
			Coordination	Trunk Strength
			Equipment Selection	Manual Dexterity
E4	CORE	Repair and replace ground	C 1	
			Repairing	Finger Dexterity
			Equipment Selection	Near Vision
E4	CORE	Test grounding straps		
			Operation Monitoring	Problem Sensitivity
F.4	CODE	m . 1	Quality Control Analysis	Manual Dexterity
E4	CORE	Test shore power cables		D 11 G 111
			Operation Monitoring	Problem Sensitivity
			Quality Control Analysis	Manual Dexterity

HOUSEKEEPING AND MACHINERY ANALYSIS

E5 CORE Analyze submarine machinery vibration analysis data Judgment and Decision Making Systems Analysis Deductive Reasoning Systems Analysis Speed of Closure E4 CORE Correct housekeeping deficiencies Coordination Judgment and Decision Making Judgment and Decision Making E4 CORE Correct sound silencing deficiencies Coordination Judgment and Decision Making Judgment and Decision Making Deductive Reasoning Judgment and Decision Making Deductive Reasoning F5 CORE Operate machinery vibration analysis equipment Operation and Control Operation Monitoring Arm-Hand Steadiness Operation Monitoring Manual Decision Written Comprehension Written Expression	Paygrade	Task Type	Task Statements	<u>Skills</u>	Abilities
Systems Analysis Speed of Closure E4 CORE Correct housekeeping deficiencies Coordination Inductive Reasoning Judgment and Decision Making Deductive Reasoning Judgment and Decision Making Deductive Reasoning Coordination Inductive Reasoning Judgment and Decision Making Deductive Reasoning Judgment and Decision Making Deductive Reasoning E4 CORE Operate machinery vibration analysis equipment Operation and Control Arm-Hand Steadiness Operation Monitoring Manual Deceivative E4 CORE Perform sound silencing surveys Reading Comprehension Written Comprehension	E5	CORE	Analyze submarine machi	nery vibration analysis data	
E4 CORE Correct housekeeping deficiencies Coordination Inductive Reasoning Judgment and Decision Making Deductive Reasoning Deductive Reasoning Deductive Reasoning Deductive Reasoning Deductive Reasoning Deductive Reasoning Inductive Reasoning Judgment and Decision Making Deductive Reasoning Deductive Re				Judgment and Decision Making	Deductive Reasoning
E4 CORE Correct sound silencing deficiencies Coordination Judgment and Decision Making Deductive Reasoning Coordination Inductive Reasoning Coordination Inductive Reasoning Judgment and Decision Making Deductive Reasoning Judgment and Decision Making Deductive Reasoning Deductive Reasoning Deductive Reasoning Arm-Hand Steadiness Operation and Control Arm-Hand Steadiness Operation Monitoring Manual Dexterity E4 CORE Perform sound silencing surveys Reading Comprehension Written Comprehension				Systems Analysis	Speed of Closure
E4 CORE Correct sound silencing deficiencies Coordination Inductive Reasoning Judgment and Decision Making Deductive Reasoning Loordination Inductive Reasoning Judgment and Decision Making Deductive Reasoning Judgment and Decision Making Deductive Reasoning Deductive Reasonin	E4	CORE	Correct housekeeping defi	iciencies	
E4 CORE Correct sound silencing deficiencies Coordination Inductive Reasoning Judgment and Decision Making Deductive Reasoning Judgment and Decision Making E4 CORE Operate machinery vibration analysis equipment Operation and Control Arm-Hand Steadiness Operation Monitoring Manual Dexterity E4 CORE Perform sound silencing surveys Reading Comprehension Written Comprehension				Coordination	Inductive Reasoning
Coordination Inductive Reasoning Judgment and Decision Making Deductive Reasoning Deductive Reasoning Deductive Reasoning E4 CORE Operate machinery vibration analysis equipment Operation and Control Arm-Hand Steadiness Operation Monitoring Manual Dexterity E4 CORE Perform sound silencing surveys Reading Comprehension Written Comprehension				Judgment and Decision Making	Deductive Reasoning
E4 CORE Operate machinery vibration analysis equipment Operation and Control Operation Monitoring Arm-Hand Steadiness Operation Monitoring Manual Dexterity E4 CORE Perform sound silencing surveys Reading Comprehension Written Comprehension	E4	CORE	Correct sound silencing de	eficiencies	
E4 CORE Operate machinery vibration analysis equipment Operation and Control Arm-Hand Steadiness Operation Monitoring Manual Dexterity E4 CORE Perform sound silencing surveys Reading Comprehension Written Comprehension				Coordination	Inductive Reasoning
Operation and Control Arm-Hand Steadiness Operation Monitoring Manual Dexterity E4 CORE Perform sound silencing surveys Reading Comprehension Written Comprehension				Judgment and Decision Making	Deductive Reasoning
E4 CORE Perform sound silencing surveys Reading Comprehension Written Comprehension	E4	CORE	Operate machinery vibrati	ion analysis equipment	
E4 CORE Perform sound silencing surveys Reading Comprehension Written Comprehension				Operation and Control	Arm-Hand Steadiness
Reading Comprehension Written Comprehension				Operation Monitoring	Manual Dexterity
	E4	CORE	Perform sound silencing s	surveys	
Writing Written Expression				Reading Comprehension	Written Comprehension
Within 23 pression				Writing	Written Expression

LIGHTING SYSTEMS

Paygrade	Task Type	Task Statements	<u>Skills</u>	Abilities
E4	CORE	Clean lighting system con	ponents	
			Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Inspect lighting system co	mponents	
			Operation Monitoring	Near Vision
			Quality Control Analysis	Written Comprehension
E5	CORE	Repair lighting system cor	mponents	
			Repairing	Finger Dexterity
			Equipment Selection	Near Vision
E5	CORE	Test lighting system comp	oonents	
			Operation Monitoring	Problem Sensitivity
			Quality Control Analysis	Manual Dexterity
E5	CORE	Troubleshoot lighting syst	em components	
			Troubleshooting	Deductive Reasoning
			Complex Problem Solving	Fluency of Ideas

MOTORS AND GENERATORS

<u>Paygrade</u>	Task Type	Task Statements	<u>Skills</u>	Abilities
E5	CORE	Adjust and align brush rig	gging assemblies	
			Systems Evaluation	Arm-Hand Steadiness
			Operation Monitoring	Finger Dexterity
E4	CORE	Adjust brush spring tensi-	on	
			Systems Evaluation	Arm-Hand Steadiness
			Operation Monitoring	Manual Dexterity
E5	CORE	Adjust motor controller of	perating set points and limits	
			Systems Evaluation	Control Precision
			Operation Monitoring	Speed of Limb Movement
E5	CORE	Adjust motor controller s		
			Systems Evaluation	Arm-Hand Steadiness
			Operation Monitoring	Manual Dexterity
E4	CORE	Clean brush rigging asser	nblies	
			Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Clean Alternating Curren	t (AC) motor components	
			Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Clean Direct Current (DC		
			Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Clean Direct Current (DC		
			Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Clean motor controller ca		
			Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Clean motor controller op		
			Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Inspect brush rigging asse		
			Operation Monitoring	Near Vision
			Quality Control Analysis	Written Comprehension
E4	CORE	Inspect Alternating Curre	ent (AC) motor components	
			Operation Monitoring	Near Vision
			Quality Control Analysis	Written Comprehension
E4	CORE	Inspect Direct Current (D	OC) generator components	
			Operation Monitoring	Near Vision
F.4	COPE		Quality Control Analysis	Written Comprehension
E4	CORE	Inspect Direct Current (D		
			Operation Monitoring	Near Vision
E4	CODE	T	Quality Control Analysis	Written Comprehension
E4	CORE	Inspect motor controller		Al Til
			Operation Monitoring	Near Vision
			Quality Control Analysis	Written Comprehension

E4	CORE	Inspect motor controller wiring and connections	
		Operation Monitoring	Near Vision
E4	CORE	Quality Control Analysis Operate Emergency Propulsion Motors (EPM)	Written Comprehension
124	COKE	Operation and Control	Arm-Hand Steadiness
		Operation Monitoring	Manual Dexterity
E4	CORE	Operate Secondary Propulsion Motors (SPM)	
		Operation and Control	Arm-Hand Steadiness
		Operation Monitoring	Manual Dexterity
E5	CORE	Perform emergency diesel generator maintenance	
		Equipment Maintenance	Arm-Hand Steadiness
T-4	CODE	Equipment Selection	Manual Dexterity
E4	CORE	Perform motor generator maintenance	A II I C I
		Equipment Maintenance Equipment Selection	Arm-Hand Steadiness Manual Dexterity
E5	CORE	Perform turbine generator maintenance	тапиа Бехіеніу
L 3	CORE	Equipment Maintenance	Arm-Hand Steadiness
		Equipment Selection	Manual Dexterity
E4	CORE	Repair Alternating Current (AC) motor components	,
		Repairing	Finger Dexterity
		Equipment Selection	Near Vision
E4	CORE	Repair Direct Current (DC) generator components	
		Repairing	Finger Dexterity
T-4	CODE	Equipment Selection	Near Vision
E4	CORE	Repair Direct Current (DC) motor components	Fine on Doutonite
		Repairing Equipment Selection	Finger Dexterity Near Vision
E5	CORE	Repair emergency propulsion systems	wear vision
LS	COKL	Repairing	Finger Dexterity
		Equipment Selection	Near Vision
E5	CORE	Repair motor controllers	
		Repairing	Finger Dexterity
		Equipment Selection	Near Vision
E5	CORE	Repair secondary propulsion systems	
		Repairing	Finger Dexterity
E4	CORE	Equipment Selection	Near Vision
E4	CORE	Seat brushes	
			Arm Hand Staadings
		Equipment Selection Management of Material Resources	Arm-Hand Steadiness Finger Dexterity
F4	CORE	Management of Material Resources	Arm-Hand Steadiness Finger Dexterity
E4	CORE	Management of Material Resources Test Alternating Current (AC) motor components	Finger Dexterity
E4	CORE	Management of Material Resources	
E4 E4	CORE	Management of Material Resources Test Alternating Current (AC) motor components Operation Monitoring	Finger Dexterity Problem Sensitivity
		Management of Material Resources Test Alternating Current (AC) motor components Operation Monitoring Quality Control Analysis Test Direct Current (DC) generator components Operation Monitoring	Finger Dexterity Problem Sensitivity Manual Dexterity Problem Sensitivity
E4	CORE	Management of Material Resources Test Alternating Current (AC) motor components Operation Monitoring Quality Control Analysis Test Direct Current (DC) generator components Operation Monitoring Quality Control Analysis	Finger Dexterity Problem Sensitivity Manual Dexterity
		Management of Material Resources Test Alternating Current (AC) motor components Operation Monitoring Quality Control Analysis Test Direct Current (DC) generator components Operation Monitoring Quality Control Analysis Test Direct Current (DC) motor components	Finger Dexterity Problem Sensitivity Manual Dexterity Problem Sensitivity Manual Dexterity
E4	CORE	Management of Material Resources Test Alternating Current (AC) motor components Operation Monitoring Quality Control Analysis Test Direct Current (DC) generator components Operation Monitoring Quality Control Analysis Test Direct Current (DC) motor components Operation Monitoring	Finger Dexterity Problem Sensitivity Manual Dexterity Problem Sensitivity Manual Dexterity Problem Sensitivity
E4 E4	CORE	Management of Material Resources Test Alternating Current (AC) motor components Operation Monitoring Quality Control Analysis Test Direct Current (DC) generator components Operation Monitoring Quality Control Analysis Test Direct Current (DC) motor components Operation Monitoring Quality Control Analysis	Finger Dexterity Problem Sensitivity Manual Dexterity Problem Sensitivity Manual Dexterity
E4	CORE	Management of Material Resources Test Alternating Current (AC) motor components Operation Monitoring Quality Control Analysis Test Direct Current (DC) generator components Operation Monitoring Quality Control Analysis Test Direct Current (DC) motor components Operation Monitoring Quality Control Analysis Test emergency diesel generators	Finger Dexterity Problem Sensitivity Manual Dexterity Problem Sensitivity Manual Dexterity Problem Sensitivity Manual Dexterity
E4 E4	CORE	Management of Material Resources Test Alternating Current (AC) motor components Operation Monitoring Quality Control Analysis Test Direct Current (DC) generator components Operation Monitoring Quality Control Analysis Test Direct Current (DC) motor components Operation Monitoring Quality Control Analysis Test emergency diesel generators Operation Monitoring Operation Monitoring	Finger Dexterity Problem Sensitivity Manual Dexterity Problem Sensitivity Manual Dexterity Problem Sensitivity Manual Dexterity Problem Sensitivity
E4 E4	CORE	Management of Material Resources Test Alternating Current (AC) motor components Operation Monitoring Quality Control Analysis Test Direct Current (DC) generator components Operation Monitoring Quality Control Analysis Test Direct Current (DC) motor components Operation Monitoring Quality Control Analysis Test emergency diesel generators Operation Monitoring Quality Control Analysis	Finger Dexterity Problem Sensitivity Manual Dexterity Problem Sensitivity Manual Dexterity Problem Sensitivity Manual Dexterity
E4 E4 E5	CORE CORE	Management of Material Resources Test Alternating Current (AC) motor components Operation Monitoring Quality Control Analysis Test Direct Current (DC) generator components Operation Monitoring Quality Control Analysis Test Direct Current (DC) motor components Operation Monitoring Quality Control Analysis Test emergency diesel generators Operation Monitoring Quality Control Analysis Test emergency propulsion systems	Finger Dexterity Problem Sensitivity Manual Dexterity Problem Sensitivity Manual Dexterity Problem Sensitivity Manual Dexterity Problem Sensitivity
E4 E4 E5	CORE CORE	Management of Material Resources Test Alternating Current (AC) motor components Operation Monitoring Quality Control Analysis Test Direct Current (DC) generator components Operation Monitoring Quality Control Analysis Test Direct Current (DC) motor components Operation Monitoring Quality Control Analysis Test emergency diesel generators Operation Monitoring Quality Control Analysis	Finger Dexterity Problem Sensitivity Manual Dexterity Problem Sensitivity Manual Dexterity Problem Sensitivity Manual Dexterity Problem Sensitivity Manual Dexterity
E4 E4 E5	CORE CORE	Management of Material Resources Test Alternating Current (AC) motor components Operation Monitoring Quality Control Analysis Test Direct Current (DC) generator components Operation Monitoring Quality Control Analysis Test Direct Current (DC) motor components Operation Monitoring Quality Control Analysis Test emergency diesel generators Operation Monitoring Quality Control Analysis Test emergency propulsion systems Operation Monitoring Quality Control Analysis Test motor generators	Finger Dexterity Problem Sensitivity Manual Dexterity
E4 E5 E5	CORE CORE CORE	Management of Material Resources Test Alternating Current (AC) motor components Operation Monitoring Quality Control Analysis Test Direct Current (DC) generator components Operation Monitoring Quality Control Analysis Test Direct Current (DC) motor components Operation Monitoring Quality Control Analysis Test emergency diesel generators Operation Monitoring Quality Control Analysis Test emergency propulsion systems Operation Monitoring Quality Control Analysis Test motor generators Operation Monitoring Operation Monitoring Operation Monitoring Operation Monitoring Operation Monitoring	Finger Dexterity Problem Sensitivity Manual Dexterity
E4 E4 E5 E5 E5	CORE CORE CORE	Management of Material Resources Test Alternating Current (AC) motor components Operation Monitoring Quality Control Analysis Test Direct Current (DC) generator components Operation Monitoring Quality Control Analysis Test Direct Current (DC) motor components Operation Monitoring Quality Control Analysis Test emergency diesel generators Operation Monitoring Quality Control Analysis Test emergency propulsion systems Operation Monitoring Quality Control Analysis Test motor generators Operation Monitoring Quality Control Analysis Test motor generators Operation Monitoring Quality Control Analysis	Finger Dexterity Problem Sensitivity Manual Dexterity
E4 E5 E5	CORE CORE CORE	Management of Material Resources Test Alternating Current (AC) motor components Operation Monitoring Quality Control Analysis Test Direct Current (DC) generator components Operation Monitoring Quality Control Analysis Test Direct Current (DC) motor components Operation Monitoring Quality Control Analysis Test emergency diesel generators Operation Monitoring Quality Control Analysis Test emergency propulsion systems Operation Monitoring Quality Control Analysis Test motor generators Operation Monitoring Quality Control Analysis Test secondary propulsion systems	Finger Dexterity Problem Sensitivity Manual Dexterity
E4 E4 E5 E5 E5	CORE CORE CORE	Management of Material Resources Test Alternating Current (AC) motor components Operation Monitoring Quality Control Analysis Test Direct Current (DC) generator components Operation Monitoring Quality Control Analysis Test Direct Current (DC) motor components Operation Monitoring Quality Control Analysis Test emergency diesel generators Operation Monitoring Quality Control Analysis Test emergency propulsion systems Operation Monitoring Quality Control Analysis Test motor generators Operation Monitoring Quality Control Analysis Test secondary propulsion systems Operation Monitoring Quality Control Analysis Test secondary propulsion systems Operation Monitoring Operation Monitoring Operation Monitoring Operation Monitoring Operation Monitoring	Finger Dexterity Problem Sensitivity Manual Dexterity Problem Sensitivity
E4 E5 E5 E5 E5	CORE CORE CORE CORE	Management of Material Resources Test Alternating Current (AC) motor components Operation Monitoring Quality Control Analysis Test Direct Current (DC) generator components Operation Monitoring Quality Control Analysis Test Direct Current (DC) motor components Operation Monitoring Quality Control Analysis Test emergency diesel generators Operation Monitoring Quality Control Analysis Test emergency propulsion systems Operation Monitoring Quality Control Analysis Test motor generators Operation Monitoring Quality Control Analysis Test secondary propulsion systems Operation Monitoring Quality Control Analysis Test secondary propulsion systems Operation Monitoring Quality Control Analysis	Finger Dexterity Problem Sensitivity Manual Dexterity
E4 E4 E5 E5 E5	CORE CORE CORE	Management of Material Resources Test Alternating Current (AC) motor components Operation Monitoring Quality Control Analysis Test Direct Current (DC) generator components Operation Monitoring Quality Control Analysis Test Direct Current (DC) motor components Operation Monitoring Quality Control Analysis Test emergency diesel generators Operation Monitoring Quality Control Analysis Test emergency propulsion systems Operation Monitoring Quality Control Analysis Test motor generators Operation Monitoring Quality Control Analysis Test secondary propulsion systems Operation Monitoring Quality Control Analysis Test secondary propulsion systems Operation Monitoring Quality Control Analysis Test turbine generators	Finger Dexterity Problem Sensitivity Manual Dexterity
E4 E5 E5 E5 E5	CORE CORE CORE CORE	Test Alternating Current (AC) motor components Operation Monitoring Quality Control Analysis Test Direct Current (DC) generator components Operation Monitoring Quality Control Analysis Test Direct Current (DC) motor components Operation Monitoring Quality Control Analysis Test emergency diesel generators Operation Monitoring Quality Control Analysis Test emergency propulsion systems Operation Monitoring Quality Control Analysis Test motor generators Operation Monitoring Quality Control Analysis Test secondary propulsion systems Operation Monitoring Quality Control Analysis Test secondary propulsion systems Operation Monitoring Quality Control Analysis Test turbine generators Operation Monitoring Quality Control Analysis Test turbine generators	Finger Dexterity Problem Sensitivity Manual Dexterity Problem Sensitivity
E4 E5 E5 E5 E5	CORE CORE CORE CORE	Management of Material Resources Test Alternating Current (AC) motor components Operation Monitoring Quality Control Analysis Test Direct Current (DC) generator components Operation Monitoring Quality Control Analysis Test Direct Current (DC) motor components Operation Monitoring Quality Control Analysis Test emergency diesel generators Operation Monitoring Quality Control Analysis Test emergency propulsion systems Operation Monitoring Quality Control Analysis Test motor generators Operation Monitoring Quality Control Analysis Test secondary propulsion systems Operation Monitoring Quality Control Analysis Test secondary propulsion systems Operation Monitoring Quality Control Analysis Test turbine generators	Finger Dexterity Problem Sensitivity Manual Dexterity
E4 E4 E5 E5 E5 E5 E5	CORE CORE CORE CORE CORE	Test Alternating Current (AC) motor components Operation Monitoring Quality Control Analysis Test Direct Current (DC) generator components Operation Monitoring Quality Control Analysis Test Direct Current (DC) motor components Operation Monitoring Quality Control Analysis Test emergency diesel generators Operation Monitoring Quality Control Analysis Test emergency propulsion systems Operation Monitoring Quality Control Analysis Test motor generators Operation Monitoring Quality Control Analysis Test secondary propulsion systems Operation Monitoring Quality Control Analysis Test secondary propulsion systems Operation Monitoring Quality Control Analysis Test turbine generators Operation Monitoring Quality Control Analysis Test turbine generators	Finger Dexterity Problem Sensitivity Manual Dexterity Problem Sensitivity
E4 E4 E5 E5 E5 E5 E5 E5 E5	CORE CORE CORE CORE CORE CORE	Test Alternating Current (AC) motor components Operation Monitoring Quality Control Analysis Test Direct Current (DC) generator components Operation Monitoring Quality Control Analysis Test Direct Current (DC) motor components Operation Monitoring Quality Control Analysis Test emergency diesel generators Operation Monitoring Quality Control Analysis Test emergency propulsion systems Operation Monitoring Quality Control Analysis Test motor generators Operation Monitoring Quality Control Analysis Test secondary propulsion systems Operation Monitoring Quality Control Analysis Test secondary propulsion systems Operation Monitoring Quality Control Analysis Test turbine generators Operation Monitoring Quality Control Analysis Troubleshoot Alternating Current (AC) motor components Troubleshooting Complex Problem Solving	Finger Dexterity Problem Sensitivity Manual Dexterity
E4 E4 E5 E5 E5 E5 E5	CORE CORE CORE CORE CORE	Test Alternating Current (AC) motor components Operation Monitoring Quality Control Analysis Test Direct Current (DC) generator components Operation Monitoring Quality Control Analysis Test Direct Current (DC) motor components Operation Monitoring Quality Control Analysis Test emergency diesel generators Operation Monitoring Quality Control Analysis Test emergency propulsion systems Operation Monitoring Quality Control Analysis Test motor generators Operation Monitoring Quality Control Analysis Test secondary propulsion systems Operation Monitoring Quality Control Analysis Test secondary propulsion systems Operation Monitoring Quality Control Analysis Test turbine generators Operation Monitoring Quality Control Analysis Troubleshoot Alternating Current (AC) motor components Troubleshooting Complex Problem Solving Troubleshoot Direct Current (DC) generator components	Finger Dexterity Problem Sensitivity Manual Dexterity Deductive Reasoning Fluency of Ideas
E4 E4 E5 E5 E5 E5 E5 E5 E5	CORE CORE CORE CORE CORE CORE	Test Alternating Current (AC) motor components Operation Monitoring Quality Control Analysis Test Direct Current (DC) generator components Operation Monitoring Quality Control Analysis Test Direct Current (DC) motor components Operation Monitoring Quality Control Analysis Test emergency diesel generators Operation Monitoring Quality Control Analysis Test emergency propulsion systems Operation Monitoring Quality Control Analysis Test motor generators Operation Monitoring Quality Control Analysis Test secondary propulsion systems Operation Monitoring Quality Control Analysis Test secondary propulsion systems Operation Monitoring Quality Control Analysis Test turbine generators Operation Monitoring Quality Control Analysis Troubleshoot Alternating Current (AC) motor components Troubleshooting Complex Problem Solving	Finger Dexterity Problem Sensitivity Manual Dexterity Poblem Sensitivity Manual Dexterity Deductive Reasoning

E4	CORE	Troubleshoot Direct Curre	ent (DC) motor components	
			Troubleshooting	Deductive Reasoning
			Complex Problem Solving	Fluency of Ideas
E5	CORE	Troubleshoot emergency	propulsion systems	
			Troubleshooting	Deductive Reasoning
			Complex Problem Solving	Fluency of Ideas
E5	CORE	Troubleshoot secondary p	ropulsion systems	
			Troubleshooting	Deductive Reasoning
			Complex Problem Solving	Fluency of Ideas

POWER DISTRIBUTION

<u>Paygrade</u>	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Analyze shutdown electric	c plant trends Judgment and Decision Making Systems Analysis	Deductive Reasoning Speed of Closure
E4	CORE	Clean Automatic Bus Tra		speed of Closure
			Equipment Maintenance	Near Vision
E4	CORE	Clean battery cell surfaces	Management of Material Resources	Finger Dexterity
124	CORE	Clean battery cen surfaces	Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Clean circuit breaker cabi		M IV:!
			Equipment Maintenance Management of Material Resources	Near Vision Finger Dexterity
E4	CORE	Clean Arc-Fault Detector	e v	
			Equipment Maintenance	Near Vision
E4	CORE	Clean Manual Bus Transf	Management of Material Resources	Finger Dexterity
L+	CORL	Cican Manual Bus Transi	Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Clean switchboard compo		
			Equipment Maintenance Management of Material Resources	Near Vision Finger Dexterity
E4	CORE	Clean switchboard interio		Tinger Dexiettly
			Equipment Maintenance	Near Vision
E.f.	CORE	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Management of Material Resources	Finger Dexterity
E5	CORE	Conduct submarine batter	y test discharges Equipment Maintenance	Problem Sensitivity
			Operation Monitoring	Written Comprehension
E5	CORE	Conduct switchboard testi	ing	•
			Equipment Maintenance	Problem Sensitivity
E4	CORE	Inspect Automatic Bus Tr	Quality Control Analysis ansfer (ABT) devices	Written Comprehension
E.	CORE	Inspect riatomatic Bus 11	Operation Monitoring	Near Vision
			Quality Control Analysis	Written Comprehension
E4	CORE	Inspect Arc-Fault Detecto		Maan Waisu
			Operation Monitoring Quality Control Analysis	Near Vision Written Comprehension
E4	CORE	Inspect Manual Bus Trans		
			Operation Monitoring	Near Vision
E4	CORE	Inspect switchboard comp	Quality Control Analysis	Written Comprehension
124	CORE	hispect switchboard comp	Operation Monitoring	Near Vision
			Quality Control Analysis	Written Comprehension
E5	CORE	Install submarine battery		m 10 1
			Equipment Selection Installation	Trunk Strength Manual Dexterity
E5	CORE	Maintain submarine batter		тапиа Белету
			Reading Comprehension	Written Comprehension
E.4	CORE	Artist 1 t 1 w	Equipment Maintenance	Problem Sensitivity
E4	CORE	Maintain submarine batter	ry support systems Reading Comprehension	Written Comprehension
			Equipment Maintenance	Problem Sensitivity
E4	CORE	Operate coolant pumping	power switchgear	•
			Operation and Control	Arm-Hand Steadiness
E4	CORE	Operate electric plant duri	Operation Monitoring	Manual Dexterity
D .	CORL	Sperate electric plant duri	Operation and Control	Arm-Hand Steadiness
			Operation Monitoring	Manual Dexterity

E4	CORE	Operate electric plant during reactor startups Operation and Control	Arm-Hand Steadiness
E4	CORE	Operation Monitoring Operate electric plants	Manual Dexterity
E4	CORE	Operation and Control Operation Monitoring Operate emergency distribution switchboards	Arm-Hand Steadiness Manual Dexterity
		Operation and Control Operation Monitoring	Arm-Hand Steadiness Manual Dexterity
E4	CORE	Operate Individual Cell Voltage (ICV) panels Operation and Control Operation Monitoring	Arm-Hand Steadiness Manual Dexterity
E4	CORE	Operate shutdown electric plant systems Operation and Control	Arm-Hand Steadiness
E4	CORE	Operation Monitoring Perform battery charging lineups Coordination	Manual Dexterity Problem Sensitivity
E5	CORE	Systems Analysis Perform casualty power system operations	Control Precision
E5	CORE	Operation and Control Operation Monitoring Perform equalizing battery charges	Trunk Strength Manual Dexterity
		Coordination Quality Control Analysis	Arm-Hand Steadiness Control Precision
E5	CORE	Perform normal battery charges Coordination Quality Control Analysis	Arm-Hand Steadiness Control Precision
E4	CORE	Recover from loss of shore power Coordination	Deductive Reasoning
E5	CORE	Equipment Selection Repair Automatic Bus Transfer (ABT) devices Repairing	Manual Dexterity Finger Dexterity
E5	CORE	Equipment Selection Repair Arc-Fault Detector (AFD) components	Near Vision
E5	CORE	Repairing Equipment Selection Repair Manual Bus Transfer (MBT) devices	Finger Dexterity Near Vision
E3	CORE	Repairing Equipment Selection	Finger Dexterity Near Vision
E5	CORE	Repair switchboard components Repairing Equipment Selection	Finger Dexterity Near Vision
E4	CORE	Take battery cell electrolyte samples Equipment Selection	Arm-Hand Steadiness
E4	CORE	Management of Material Resources Take battery cell gravities	Finger Dexterity Control Precision
E5	CORE	Equipment Selection Operation Monitoring Test Automatic Bus Transfer (ABT) devices	Control Precision Finger Dexterity
E5	CORE	Operation Monitoring Quality Control Analysis Test Are Feult Detector (AFD) companyets	Problem Sensitivity Manual Dexterity
E3	CORE	Test Arc-Fault Detector (AFD) components Operation Monitoring Quality Control Analysis	Problem Sensitivity Manual Dexterity
E5	CORE	Test Manual Bus Transfer (MBT) devices Operation Monitoring Quality Control Analysis	Problem Sensitivity Manual Dexterity
E5	CORE	Troubleshoot Automatic Bus Transfer (ABT) devices Troubleshooting	Deductive Reasoning
E5	CORE	Complex Problem Solving Troubleshoot Arc-Fault Detector (AFD) components Troubleshooting	Fluency of Ideas Deductive Reasoning
E5	CORE	Complex Problem Solving Troubleshoot Manual Bus Transfer (MBT) devices	Fluency of Ideas
E5	CORE	Troubleshooting Complex Problem Solving Troubleshoot submarine battery faults	Deductive Reasoning Fluency of Ideas
	CORL	Troubleshoot submarine vallery faults Troubleshooting Complex Problem Solving	Deductive Reasoning Fluency of Ideas

E5

REACTOR PLANT ASSOCIATED EQUIPMENT

Paygrade	Task Type	Task Statements Skills	Abilities
E5	CORE	Analyze shutdown reactor plant trends	
		Judgment and Decision Making	Deductive Reasoning
		Systems Analysis	Speed of Closure
E5	CORE	Check discharge boundary valves prior to submarine maintenance o	r evolutions
		Equipment Maintenance	Manual Dexterity
		Quality Control Analysis	Written Comprehension
E4	CORE	Check primary valve positions	
		Equipment Maintenance	Manual Dexterity
E4	CORE	Quality Control Analysis	Written Comprehension
E4	CORE	Classify primary valves	W.' C 1 '
		Reading Comprehension	Written Comprehension
E4	CORE	Systems Analysis Clean Interior Communications (IC) systems	Written Expression
E/ 4	CORE	Clean Interior Communications (IC) systems Equipment Maintenance	Near Vision
		Equipment Maintenance Management of Material Resources	Finger Dexterity
E4	CORE	Conduct evolutions on systems that could cause overboard discharg	
LŦ	CORL	Systems Analysis	Problem Sensitivity
		Operation and Control	Written Comprehension
E4	CORE	Conduct primary valve operation radiological surveys	Writen Comprehension
D.	CORE	Equipment Maintenance	Problem Sensitivity
		Quality Control Analysis	Written Comprehension
E4	CORE	Control access to Radiological Controlled Areas (RCA)	
		Speaking	Oral Expression
		Writing	Written Expression
E5	CORE	Control maintenance that affects remote operability	•
		Speaking	Oral Expression
		Equipment Maintenance	Time Sharing
E4	CORE	Disestablish Radiological Controlled Areas (RCA)	
		Speaking	Oral Expression
		Writing	Written Expression
E4	CORE	Establish Radiological Controlled Areas (RCA)	
		Speaking	Oral Expression
E.4	CORE	Writing	Written Expression
E4	CORE	Issue self-indicating pocket dosimeters	E' D
		Management of Material Resources	Finger Dexterity
E4	CORE	Operation Monitoring	Written Expression
£4	CORE	Maintain Radiological Controlled Area (RCA) records Reading Comprehension	Written Comprehension
		Writing	Written Comprehension Written Expression
E4	CORE	Operate discharge boundary valves	Writen Expression
D.	CORE	Operation and Control	Arm-Hand Steadiness
		Operation Monitoring	Manual Dexterity
E4	CORE	Operate primary valves	
		Operation and Control	Arm-Hand Steadiness
		Operation Monitoring	Manual Dexterity
E5	CORE	Operate shutdown reactor plant systems	
		Operation and Control	Arm-Hand Steadiness
		Operation Monitoring	Manual Dexterity
E4	CORE	Perform Radiological Controlled Area (RCA) casualty surveys	
		Judgment and Decision Making	Written Comprehension
77.4	CORE	Writing	Written Expression
E4	CORE	Perform reactor plant valve lineups	4 77 16 "
		Coordination	Arm-Hand Steadiness
		Quality Control Analysis	Control Precision
		CITED OF CUIDANT	

SHIP SECURITY

<u>Paygrade</u>	Task Type	<u>Task Statements</u> <u>Skills</u>		<u>Abilities</u>
E4	CORE	Employ shipboard security engage	ement tactics below decks	
		Active	e Learning	Gross Body Coordination
		Learn	ing Strategies	Multi-limb Coordination

E4

Monitor spaces for security below decks

Time Management
Critical Thinking

Deductive Reasoning Spatial Orientation

STEAM PLANT ASSOCIATED EQUIPMENT

<u>Paygrade</u> E5	<u>Task Type</u> CORE	Task Statements Skills Adjust hotwell level control system set points	<u>Abilities</u>
		Systems Evaluation	Auditory Attention
77.4	CODE	Operation Monitoring	Reaction Time
E4	CORE	Adjust salinity indicating system set points Systems Evaluation	Auditory Attention
		Operation Monitoring	Reaction Time
E4	CORE	Adjust temperature monitoring system set points	Reaction Time
		Systems Evaluation	Auditory Attention
		Operation Monitoring	Reaction Time
E4	CORE	Analyze main engine parameters for pressure and temperature trends	
		Judgment and Decision Making	Deductive Reasoning
E5	CORE	Systems Analysis Clean generator governor electrical components	Speed of Closure
E3	COKE	Equipment Maintenance	Near Vision
		Management of Material Resources	Finger Dexterity
E4	CORE	Clean hotwell level control system components	
		Equipment Maintenance	Near Vision
		Management of Material Resources	Finger Dexterity
E4	CORE	Clean salinity cells	
		Equipment Maintenance	Near Vision
E4	CODE	Management of Material Resources	Finger Dexterity
E4	CORE	Clean salinity indicating panels Equipment Maintenance	Near Vision
		Management of Material Resources	Finger Dexterity
E4	CORE	Clean shaft speed sensing, indication, and Engine Order Telegraph (E	
		Equipment Maintenance	Near Vision
		Management of Material Resources	Finger Dexterity
E4	CORE	Clean temperature monitoring panels	
		Equipment Maintenance	Near Vision
F.4	CORE	Management of Material Resources	Finger Dexterity
E4	CORE	Clean vent fog precipitators	Maan Vision
		Equipment Maintenance Management of Material Resources	Near Vision Finger Dexterity
E5	CORE	Inspect generator governor system electrical components	Tinger Dexiettly
23	CORE	Operation Monitoring	Near Vision
		Quality Control Analysis	Written Comprehension
E4	CORE	Inspect hotwell level control systems	•
		Operation Monitoring	Near Vision
77.4	CORE	Quality Control Analysis	Written Comprehension
E4	CORE	Inspect salinity indicating systems	37 77 1
		Operation Monitoring Quality Control Analysis	Near Vision Written Comprehension
E4	CORE	Inspect shaft speed sensing, indication, and Engine Order Telegraph	
L4	CORL	Operation Monitoring	Near Vision
		Quality Control Analysis	Written Comprehension
E4	CORE	Inspect temperature monitoring systems	1
		Operation Monitoring	Near Vision
		Quality Control Analysis	Written Comprehension
E4	CORE	Inspect vent fog precipitators	
		Operation Monitoring	Near Vision
E4	CORE	Quality Control Analysis	Written Comprehension
124	CORE	Operate main engines Operation and Control	Arm-Hand Steadiness
		Operation Monitoring	Manual Dexterity
E4	CORE	Operate salinity indicating systems	manual Benierus
		Operation and Control	Arm-Hand Steadiness
		Operation Monitoring	Manual Dexterity
E4	CORE	Operate temperature monitoring systems	
		Operation and Control	Arm-Hand Steadiness
E5	COPE	Operation Monitoring	Manual Dexterity
E5	CORE	Repair generator governor system electrical components *Repairing**	Finger Dexterity
		Equipment Selection	Near Vision
		-1P.110111 2010011011	

E5	CORE	Repair hotwell level control systems	
		Repairing	Finger Dexterity
		Equipment Selection	Near Vision
E5	CORE	Repair salinity indicating systems	
		Repairing	Finger Dexterity
		Equipment Selection	Near Vision
E4	CORE	Repair shaft speed sensing, indication, and Engine Order Telegr	
		Repairing	Finger Dexterity
		Equipment Selection	Near Vision
E5	CORE	Repair temperature monitoring systems	
20	COLL	Repairing	Finger Dexterity
		Equipment Selection	Near Vision
E4	CORE	Repair vent fog precipitators	rear vision
124	COKE	Repair vent log precipitators Repairing	Finger Dexterity
			Near Vision
E5	CORE	Equipment Selection	wear vision
EJ	CORE	Test generator governor electrical components	D 11 G 12 12
		Operation Monitoring	Problem Sensitivity
	CODE	Quality Control Analysis	Manual Dexterity
E5	CORE	Test hotwell level control systems	
		Operation Monitoring	Problem Sensitivity
		Quality Control Analysis	Manual Dexterity
E5	CORE	Test salinity indicating systems	
		Operation Monitoring	Problem Sensitivity
		Quality Control Analysis	Manual Dexterity
E4	CORE	Test shaft speed sensing, indication, and Engine Order Telegrap	h (EOT) components
		Operation Monitoring	Problem Sensitivity
		Quality Control Analysis	Manual Dexterity
E5	CORE	Test temperature monitoring systems	
		Operation Monitoring	Problem Sensitivity
		Quality Control Analysis	Manual Dexterity
E4	CORE	Test vent fog precipitators	
		Operation Monitoring	Problem Sensitivity
		Quality Control Analysis	Manual Dexterity
E5	CORE	Troubleshoot generator governor electrical components	-
		Troubleshooting	Deductive Reasoning
		Complex Problem Solving	Fluency of Ideas
E5	CORE	Troubleshoot hotwell level control systems	y e y
		Troubleshooting	Deductive Reasoning
		Complex Problem Solving	Fluency of Ideas
E5	CORE	Troubleshoot salinity indicating systems	T theney of facus
23	COILE	Troubleshooting	Deductive Reasoning
		Complex Problem Solving	Fluency of Ideas
E4	CORE	Troubleshoot shaft speed sensing, indication, and Engine Order	
L+	COKL	Troubleshooting Troubleshooting	Deductive Reasoning
		Complex Problem Solving	Fluency of Ideas
E5	CORE		r tuency of faeus
ĽJ	COKE	Troubleshoot temperature monitoring systems	Daduatina Paggarina
		Troubleshooting Complex Problem Solving	Deductive Reasoning
E4	CORE		Fluency of Ideas
E4	CORE	Troubleshoot vent fog precipitators	Daduation B
		Troubleshooting	Deductive Reasoning
		Complex Problem Solving	Fluency of Ideas

TECHNICAL ADMINISTRATION

<u>Paygrade</u>	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Conduct submarine pre-	underway checks	
		_	Negotiation	Problem Sensitivity
			Time Management	Written Comprehension
E5	CORE	Create Quality Assuranc	e (QA) packages	
			Reading Comprehension	Written Comprehension
			Writing	Written Expression
E5	CORE	Maintain submarine batt	ery books	
			Reading Comprehension	Written Comprehension
			Writing	Written Expression
E5	CORE	Manage performance da	ta collection	
			Reading Comprehension	Written Comprehension
			Writing	Written Expression
E5	CORE	Perform Quality Assurar	nce (QA) testing	
			Operation Monitoring	Written Comprehension
			Quality Control Analysis	Written Expression

E4	CORE	Perform reactor plant component tag outs	
		Reading Comprehension	Written Comprehension
		Writing	Written Expression
E5	CORE	Perform remote operability checklists	
		Reading Comprehension	Written Comprehension
		Writing	Written Expression
E4	CORE	Safeguard Naval Nuclear Propulsion Information (NNPI)	-
		Reading Comprehension	Information Ordering
		Writing	Written Comprehension

Job Title Job Code **Submarine Propulsion Plant Electrical Supervisor** 003785

Short Title (30 Characters) Job Family **NOC Short Title (10 Characters)**

Production 5100-8013.00 SUB PROPULSION PLANT ELECT SUP SS PPE SUP

Pay Plan Career Field **Proficiency Level** Other Relationships and Rules:

Enlisted EM(NUC) NEC 3364

Job Description

E6

Submarine Propulsion Plant Electrical Supervisors perform advanced electrical distribution operations and apply advanced level maintenance practices to electrical distribution systems and electrical generators. They supervise operations, maintenance, and training for personnel assigned to the electrical division. They draft correspondence and develop administrative programs to support the division. Electrical Supervisors perform the critical work functions required to move naval tactical forces, repair and maintain equipment, train forces and personnel, and perform consequence management.

DoD Relationship O*NET Relationship

Name and Family Code: Title and Group: Code and Area: Title and SOC Code:

Power Plant Operators Nuclear Power 166100 Production

51-8013.00

AUXILIARY ELECTRICAL EQUIPMENT

Paygrade	<u>Task Type</u> CORE	Task Statements	<u>Skills</u>	<u>Abilities</u>
E6	CORE	Repair control panels	D an ainin a	Eine on Dontonito
			Repairing	Finger Dexterity
			Equipment Selection	Near Vision
E6	CORE	Troubleshoot control pane	ls	
			Troubleshooting	Deductive Reasoning
			Complex Problem Solving	Fluency of Ideas
E6	CORE	Troubleshoot electrical cir	cuits	
			Troubleshooting	Deductive Reasoning
			Complex Problem Solving	Fluency of Ideas

CASUALTY CONTROL

Paygrade Task Type **Task Statements** Abilities **CORE**

Coordinate shutdown watch section casualty operations Coordination Inductive Reasoning

Judgment and Decision Making Deductive Reasoning

CIRCUIT BREAKERS

Task Statements Paygrade Task Type Skills **Abilities CORE** Test circuit breakers **Operation Monitoring** Problem Sensitivity Manual Dexterity Quality Control Analysis E6 CORE Troubleshoot circuit breakers Deductive Reasoning Troubleshooting

Complex Problem Solving Fluency of Ideas

HOUSEKEEPING AND MACHINERY ANALYSIS

Task Type **Paygrade Task Statements** Skills **Abilities**

CORE Perform housekeeping surveys Reading Comprehension Written Comprehension

Writing Written Expression

MOTORS AND GENERATORS

Paygrade Task Type **Task Statements** Abilities

E6 **CORE** Repair emergency diesel generators

Repairing Finger Dexterity **Equipment Selection** Near Vision

E6	CORE	Repair motor generators		
			Repairing	Finger Dexterity
			Equipment Selection	Near Vision
E6	CORE	Repair turbine generators		
			Repairing	Finger Dexterity
			Equipment Selection	Near Vision
E6	CORE	Test motor controller oper	ration	
		•	Operation Monitoring	Problem Sensitivity
			Quality Control Analysis	Manual Dexterity
E6	CORE	Troubleshoot emergency of		
20	COLL	Troubleshoot emergency (Troubleshooting	Deductive Reasoning
			Complex Problem Solving	Fluency of Ideas
E6	CORE	Troubleshoot motor contro		Tuency of facus
Lo	CORL	Troubleshoot motor contro	Troubleshooting	Deductive Reasoning
			Complex Problem Solving	Fluency of Ideas
E6	CORE	Troublashoot motor ganer	1	Tuency of faeds
E0	CORE	Troubleshoot motor gener		Dadustina Bassanina
			Troubleshooting	Deductive Reasoning
T.C	CORE	m 11 1 11	Complex Problem Solving	Fluency of Ideas
E6	CORE	Troubleshoot turbine gene		
			Troubleshooting	Deductive Reasoning
			Complex Problem Solving	Fluency of Ideas
		POWE	R DISTRIBUTION	
Paygrade	Task Type	Task Statements	Skills	Abilities
E6	CORE	Supervise submarine batte		
Lo	COILL	Super vise submarine batte	Equipment Maintenance	Deductive Reasoning
			Monitoring	Inductive Reasoning
E6	CORE	Troubleshoot switchboard		manetive Reasoning
LU	COKL	Troubleshoot switchboard	Troubleshooting	Deductive Reasoning
			O .	
			Complex Problem Solving	Fluency of Ideas
		REACTOR PLAN	T ASSOCIATED EQUIPMENT	1
ъ	m 1 m	m 1 C 4	a	
<u>Paygrade</u>	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
E6	CORE	Verify conditions for prev	ention of inadvertent discharges	
			Reading Comprehension	Information Ordering
			Operation and Control	Time Sharing
		TECHNICA	AL ADMINISTRATION	
Paygrade	Task Type	Task Statements	Skills	Abilities .
E6	CORE	Audit Quality Assurance (OA) packages	
		and Canada	Quality Control Analysis	Written Comprehension
			Reading Comprehension	Written Expression
E6	CORE	Conduct remote operabilit		Willen Expression
LU	CORL	Conduct remote operating	Instructing	Oral Expression
				•
E6	CODE	Pavious Ouglitz Assures	Speaking	Written Expression
E6	CORE	Review Quality Assurance		Weigen Con I
			Reading Comprehension	Written Comprehension
E.C.	CODE		Writing	Written Expression
E6	CORE	Supervise electrical division		
			Equipment Maintenance	Deductive Reasoning
			Monitoring	Inductive Reasoning

Job Title Job Code **Submarine Propulsion Plant Electrical Manager** 003793

NOC Short Title (30 Characters) Job Family **Short Title (10 Characters)**

5100-8013.00 Production SUB PROPULSION PLANT ELECT MGR SS PPE MGR

Pay Plan Career Field **Proficiency Level Other Relationships and Rules:**

Enlisted EM(NUC) NEC 3364

Job Description

Submarine Propulsion Plant Electrical Managers manage operations, maintenance, and training for personnel assigned to electrical division and/or engineering department. They coordinate the departmental electrical safety program. They review divisional and/or departmental correspondence and perform audits of divisional and/or departmental programs. Electrical Managers performs the critical work functions required to train forces and personnel, repair and maintain equipment, move naval tactical forces, and perform consequence management.

DoD Relationship O*NET Relationship

Title and Group: Code and Area: Title and SOC Code: Name and Family Code:

Nuclear Power 166100 Power Plant Operators Production

51-8013.00 166 16

CASUALTY CONTROL

Task Type **Abilities Paygrade Task Statements Skills CORE** Supervise casualty electrical distribution operations

> Equipment Maintenance Deductive Reasoning Inductive Reasoning

Monitoring

ELECTRICAL INSTALLATIONS

Abilities Paygrade Task Type **Task Statements Skills CORE**

Coordinate equipment modifications Installation Visualization

Coordination Deductive Reasoning

TECHNICAL ADMINISTRATION

Paygrade	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
E7	CORE	Audit electrical division	on records	
			Quality Control Analysis	Written Comprehension
			Reading Comprehension	Written Expression
E7	CORE	Audit engineering dep	artment records	
			Quality Control Analysis	Written Comprehension
			Reading Comprehension	Written Expression
E7	CORE	Supervise Quality Ass	urance (QA) testing program	
			Equipment Maintenance	Deductive Reasoning
			Monitoring	Inductive Reasoning

Job TitleJob CodeSurface Propulsion Plant Electrical Operator003778

<u>Job Family</u> <u>NOC</u> <u>Short Title (30 Characters)</u> <u>Short Title (10 Characters)</u>

Production 51-8013.00 SUR PROPULSION PLANT ELECT OP SW PPE OP

Enlisted EM(NUC) A/J NEC 3384

Job Description

Surface Propulsion Plant Electrical Operators perform operations and basic preventive maintenance of electrical distribution systems, motors and controllers, electrical generators, lighting systems, alarm and indicating systems, machinery vibration analysis equipment, throttle control systems, and other electrical and electronic support equipment. They possess a thorough understanding of reactor, electrical, and mechanical theory involved in the operation of nuclear reactors, steam plants, and auxiliary equipment. They possess detailed knowledge of chemistry and radiological controls associated with the nuclear reactor. They also supervise operations of the shutdown reactor plant. Electrical Operators perform the critical work functions required to repair and maintain equipment and move naval tactical forces.

DoD Relationship O*NET Relationship

Title and Group: Code and Area: Title and SOC Code: Name and Family Code:

 Nuclear Power
 166100
 Power Plant Operators
 Production

 166
 16
 51-8013.00
 51

AUXILIARY ELECTRICAL EQUIPMENT

Paygrade	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Adjust alarm set points		
			Systems Evaluation	Auditory Attention
			Operation Monitoring	Reaction Time
E5	CORE	Adjust control panel interl		
			Systems Evaluation	Manual Dexterity
			Operation Monitoring	Reaction Time
E5	CORE	Adjust control panel opera	C	
			Systems Evaluation	Arm-Hand Steadiness
			Operation Monitoring	Reaction Time
E5	CORE	Adjust control panel opera		
			Systems Evaluation	Auditory Attention
			Operation Monitoring	Reaction Time
E4	CORE	Clean alarm and indicating		
			Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Clean electrically operated		
			Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Clean control panel cabine		
			Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Clean control panel operat		
			Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Clean air compressor elect		
			Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Clean distilling plant elect		
			Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Clean electrical panel com		
			Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Clean electrical panel inter		
			Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Clean electrostatic precipit		
			Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Clean Programmable Logi	* *	
			Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity

E4	CORE	Clean sensing and control electrical devices Equipment Maintenance	Near Vision
E4	CORE	Management of Material Resources Clean soldered electrical connections	Finger Dexterity
E4	CORE	Equipment Maintenance Management of Material Resources Inspect alarm and indicating systems	Near Vision Finger Dexterity
F4	CODE	Operation Monitoring Quality Control Analysis	Near Vision Written Comprehension
E4	CORE	Inspect electrically operated valve components Operation Monitoring Quality Control Analysis	Near Vision Written Comprehension
E4	CORE	Inspect control panel operating mechanisms Operation Monitoring	Near Vision
E4	CORE	Quality Control Analysis Inspect control panel wiring and connections Operation Monitoring	Written Comprehension Near Vision
E4	CORE	Quality Control Analysis Inspect air compressor electrical components Operation Monitoring	Written Comprehension Near Vision
E4	CORE	Quality Control Analysis Inspect distilling plant electrical components	Written Comprehension
E4	CORE	Operation Monitoring Quality Control Analysis Inspect electrical panel components	Near Vision Written Comprehension
		Operation Monitoring Quality Control Analysis	Near Vision Written Comprehension
E4	CORE	Inspect electrostatic precipitators Operation Monitoring	Near Vision
E4	CORE	Quality Control Analysis Inspect Programmable Logic Controllers (PLC)	Written Comprehension
E4	CORE	Operation Monitoring Quality Control Analysis Inspect sensing and control electrical devices	Near Vision Written Comprehension
E4	CORE	Operation Monitoring Quality Control Analysis Inspect soldered electrical connections	Near Vision Written Comprehension
		Operation Monitoring	Near Vision
E4	CORE	Quality Control Analysis Operate alarm and indicating systems Operation and Control	Written Comprehension Hearing Sensitivity
E4	CORE	Operation Monitoring Operate Interior Communications (IC) equipment	Near Vision
E5	CORE	Operation and Control Operation Monitoring Repair alarm and indicating systems	Arm-Hand Steadiness Manual Dexterity
		Repairing Equipment Selection	Finger Dexterity Near Vision
E4	CORE	Repair electrically operated valve components Repairing	Finger Dexterity
E6	CORE	Equipment Selection Repair control panels	Near Vision
LO	CORE	Repair Control panels Repairing	Finger Dexterity
E5	CORE	Equipment Selection	Near Vision
E3	CORE	Repair electrical circuits Repairing	Finger Dexterity
D.E.	CORE	Equipment Selection	Near Vision
E5	CORE	Repair electrical components Repairing	Finger Dexterity
E4	CORE	Equipment Selection	Near Vision
E4	CORE	Repair air compressor electrical components Repairing	Finger Dexterity
E4	CORE	Equipment Selection	Near Vision
E4	CORE	Repair distilling plant electrical components Repairing	Finger Dexterity
7.	gop-	Equipment Selection	Near Vision
E4	CORE	Repair electrostatic precipitators Repairing	Finger Dexterity
		Equipment Selection	Near Vision

E5	CORE	Repair Interior Communications (IC) systems	
EJ	CORE	Repair interior Communications (IC) systems Repairing	Finger Dexterity
T. (CORT	Equipment Selection	Near Vision
E4	CORE	Repair Programmable Logic Controllers (PLC) Repairing	Finger Dexterity
		Equipment Selection	Near Vision
E4	CORE	Repair sensing and control electrical devices	
		Repairing	Finger Dexterity
E5	CORE	Equipment Selection Repair throttle control electrical systems	Near Vision
LJ	COKE	Repair unottie control electrical systems Repairing	Finger Dexterity
		Equipment Selection	Near Vision
E4	CORE	Replace soldered electrical connections	4 77 10 1
		Equipment Selection Technology Design	Arm-Hand Steadiness Finger Dexterity
E4	CORE	Solder electrical connections	Tunger Bestiertiy
		Equipment Selection	Arm-Hand Steadiness
E.C	CODE	Technology Design	Finger Dexterity
E5	CORE	Test alarm and indicating systems Operation Monitoring	Auditory Attention
		Quality Control Analysis	Manual Dexterity
E4	CORE	Test electrically operated valve components	
		Operation Monitoring	Problem Sensitivity
E5	CORE	Quality Control Analysis Test control panels	Manual Dexterity
113	CORL	Operation Monitoring	Problem Sensitivity
		Quality Control Analysis	Manual Dexterity
E4	CORE	Test air compressor electrical components	D 11 G 1211
		Operation Monitoring Quality Control Analysis	Problem Sensitivity Manual Dexterity
E4	CORE	Test distilling plant electrical components	тана Беленіу
		Operation Monitoring	Problem Sensitivity
E.C	CODE	Quality Control Analysis	Manual Dexterity
E5	CORE	Test electrical panels Operation Monitoring	Problem Sensitivity
		Quality Control Analysis	Manual Dexterity
E4	CORE	Test electrostatic precipitators	,
		Operation Monitoring	Problem Sensitivity
E4	CORE	Quality Control Analysis Test Programmable Logic Controllers (PLC)	Manual Dexterity
L	CORL	Operation Monitoring	Problem Sensitivity
		Quality Control Analysis	Manual Dexterity
E4	CORE	Test sensing and control electrical devices	Dunklam Camatriate
		Operation Monitoring Quality Control Analysis	Problem Sensitivity Manual Dexterity
E5	CORE	Test throttle control electrical systems	Manual Desireruy
		Operation Monitoring	Problem Sensitivity
E5	CORE	Quality Control Analysis Troubleshoot alarm and indicating systems	Manual Dexterity
EJ	CORE	Troubleshoot alarm and indicating systems Troubleshooting	Deductive Reasoning
		Complex Problem Solving	Fluency of Ideas
E4	CORE	Troubleshoot electrically operated valve components	
		Troubleshooting	Deductive Reasoning
E5	CORE	Complex Problem Solving Troubleshoot electrical components	Fluency of Ideas
20	00112	Troubleshooting	Deductive Reasoning
		Complex Problem Solving	Fluency of Ideas
E4	CORE	Troubleshoot air compressor electrical components	Doductino Bossovino
		Troubleshooting Complex Problem Solving	Deductive Reasoning Fluency of Ideas
E4	CORE	Troubleshoot distilling plant electrical components	
		Troubleshooting	Deductive Reasoning
E4	CODE	Complex Problem Solving	Fluency of Ideas
E4	CORE	Troubleshoot electrostatic precipitators *Troubleshooting**	Deductive Reasoning
		Complex Problem Solving	Fluency of Ideas
E5	CORE	Troubleshoot Interior Communications (IC) systems	• •
		Troubleshooting	Deductive Reasoning
		Complex Problem Solving	Fluency of Ideas

E4	CORE	Troubleshoot Programma	ble Logic Controllers (PLC)	
			Troubleshooting	Deductive Reasoning
			Complex Problem Solving	Fluency of Ideas
E4	CORE	Troubleshoot sensing and	control electrical devices	
			Troubleshooting	Deductive Reasoning
			Complex Problem Solving	Fluency of Ideas
E5	CORE	Troubleshoot throttle cont	trol electrical systems	
			Troubleshooting	Deductive Reasoning
			Complex Problem Solving	Fluency of Ideas

CASUALTY CONTROL

Paygrade	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Combat engineering plant	casualties	
			Equipment Selection	Deductive Reasoning
			Judgment and Decision Making	Reaction Time
E4	CORE	Combat reactor plant casu	alties	
			Equipment Selection	Deductive Reasoning
			Judgment and Decision Making	Reaction Time
E4	CORE	Identify and isolate derang	ged or damaged electrical equipment	
			Complex Problem Solving	Originality
			Critical Thinking	Deductive Reasoning
E4	CORE	Repair deranged or damage	ged electrical equipment	
			Repairing	Finger Dexterity
			Equipment Selection	Near Vision
E4	CORE	Test deranged or damaged	d electrical equipment	
			Operation Monitoring	Problem Sensitivity
			Quality Control Analysis	Manual Dexterity
E4	CORE	Troubleshoot deranged or	damaged electrical equipment	
			Troubleshooting	Deductive Reasoning
			Complex Problem Solving	Fluency of Ideas

CIRCUIT BREAKERS

Pavgrade	Task Type	Task Statements	Skills	Abilities
E5	CORE	Adjust circuit breaker op		Abuues
1.5	CORL	Adjust elleuit breaker op	Systems Evaluation	Arm-Hand Steadiness
			Operation Monitoring	Manual Dexterity
F4	CORE	Clean circuit breaker con		таний Веленіу
D.	COIL	Cican circuit breaker con	Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
F4	CORE	Clean circuit breaker ope		Tunger Bestiertiy
D.	COIL	Clean chean breaker ope	Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
F4	CORE	Inspect circuit breaker au		1 inger Besiertiy
2.	COLL	inspect circuit steamer an	Operation Monitoring	Near Vision
			Quality Control Analysis	Written Comprehension
F4	CORE	Inspect circuit breaker co		Writen Comprehension
D.	COIL	inspect circuit steaker co	Operation Monitoring	Near Vision
			Ouality Control Analysis	Written Comprehension
F4	CORE	Inspect circuit breaker op	~ , ,	Written Comprehension
2.	COLL	inspect eneant steamer op	Operation Monitoring	Near Vision
			Ouality Control Analysis	Written Comprehension
F4	CORE	Inspect circuit breaker wi		Written Comprehension
D.	COIL	mspeet eneur breaker wi	Operation Monitoring	Near Vision
			Ouality Control Analysis	Written Comprehension
E5	CORE	Repair circuit breakers	Quality Control Interview	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
133	COIL	repair electric securers	Repairing	Finger Dexterity
			Equipment Selection	Near Vision
E5	CORE	Test circuit breaker opera		Tital Vision
20	COLL	rest enreum steamer spene	Operation Monitoring	Problem Sensitivity
			Quality Control Analysis	Manual Dexterity
E5	CORE	Test circuit breakers	2, Comi of Little, 1000	
20	001112	1050 chronic broakers	Operation Monitoring	Problem Sensitivity
			Quality Control Analysis	Manual Dexterity
			guard, common interpreta	2 caterity

ELECTRICAL INSTALLATIONS

<u>Paygrade</u>	Task Type	Task Statements	Skills	<u>Abilities</u>
E4	CORE	Clean grounding straps	Equipment Maintenance	Near Vision
E4	CORE	Conduct shore power ground	Management of Material Resources nd checks	Finger Dexterity
			Equipment Maintenance Quality Control Analysis	Problem Sensitivity Written Comprehension
E4	CORE	Inspect grounding straps	Operation Monitoring	Near Vision
7.4	CORE		Quality Control Analysis	Written Comprehension
E4	CORE	Inspect shore power cables	Operation Monitoring	Near Vision
E4	CORE	Install permanent cables	Quality Control Analysis	Written Comprehension
			Equipment Selection Installation	Trunk Strength Manual Dexterity
E4	CORE	Install shore power cables	Fauinment Selection	Trunk Strength
F.4	CORE	D	Equipment Selection Installation	Manual Dexterity
E4	CORE	Remove shore power cable	Coordination	Trunk Strength
E4	CORE	Repair and replace groundi	Equipment Selection ing straps	Manual Dexterity
		1 1 0	Repairing Equipment Selection	Finger Dexterity Near Vision
E4	CORE	Test grounding straps		
7.4	CORE		Operation Monitoring Quality Control Analysis	Problem Sensitivity Manual Dexterity
E4	CORE	Test shore power cables	Operation Monitoring	Problem Sensitivity
			Quality Control Analysis	Manual Dexterity
		HOUSEKEEPING A	AND MACHINERY ANALYS	IS
<u>Paygrade</u>	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
<u>Paygrade</u> E4	Task Type CORE	Task Statements Operate machinery vibration		Abilities Arm-Hand Steadiness
		Operate machinery vibration	on analysis equipment Operation and Control Operation Monitoring	
		Operate machinery vibration	on analysis equipment Operation and Control	Arm-Hand Steadiness
E4 Paygrade	CORE Task Type	Operate machinery vibration LIGH Task Statements	on analysis equipment Operation and Control Operation Monitoring TING SYSTEMS Skills	Arm-Hand Steadiness
E4	CORE	Operate machinery vibration	on analysis equipment Operation and Control Operation Monitoring TING SYSTEMS Skills ponents Equipment Maintenance	Arm-Hand Steadiness Manual Dexterity
E4 Paygrade	CORE Task Type	Operate machinery vibration LIGH Task Statements	on analysis equipment Operation and Control Operation Monitoring TING SYSTEMS Skills ponents Equipment Maintenance Management of Material Resources	Arm-Hand Steadiness Manual Dexterity Abilities
E4 Paygrade E4	Task Type CORE	Operate machinery vibration LIGH Task Statements Clean lighting system com	on analysis equipment Operation and Control Operation Monitoring CTING SYSTEMS Skills ponents Equipment Maintenance Management of Material Resources inponents Operation Monitoring	Arm-Hand Steadiness Manual Dexterity Abilities Near Vision Finger Dexterity Near Vision
E4 Paygrade E4	Task Type CORE	Operate machinery vibration LIGH Task Statements Clean lighting system com	on analysis equipment Operation and Control Operation Monitoring TING SYSTEMS Skills ponents Equipment Maintenance Management of Material Resources inponents Operation Monitoring Quality Control Analysis inponents	Arm-Hand Steadiness Manual Dexterity Abilities Near Vision Finger Dexterity Near Vision Written Comprehension
E4 Pavgrade E4 E4 E5	Task Type CORE CORE CORE	Clean lighting system com Repair lighting system com	on analysis equipment Operation and Control Operation Monitoring TING SYSTEMS Skills ponents Equipment Maintenance Management of Material Resources mponents Operation Monitoring Quality Control Analysis uponents Repairing Equipment Selection	Arm-Hand Steadiness Manual Dexterity Abilities Near Vision Finger Dexterity Near Vision
E4 Pavgrade E4 E4	Task Type CORE CORE	Clean lighting system com Inspect lighting system com	on analysis equipment Operation and Control Operation Monitoring TING SYSTEMS Skills ponents Equipment Maintenance Management of Material Resources mponents Operation Monitoring Quality Control Analysis uponents Repairing Equipment Selection	Arm-Hand Steadiness Manual Dexterity Abilities Near Vision Finger Dexterity Near Vision Written Comprehension Finger Dexterity
E4 Pavgrade E4 E4 E5	Task Type CORE CORE CORE	Clean lighting system com Repair lighting system com	on analysis equipment Operation and Control Operation Monitoring TING SYSTEMS Skills ponents Equipment Maintenance Management of Material Resources inponents Operation Monitoring Quality Control Analysis Repairing Equipment Selection conents Operation Monitoring Quality Control Analysis	Arm-Hand Steadiness Manual Dexterity Abilities Near Vision Finger Dexterity Near Vision Written Comprehension Finger Dexterity Near Vision
Paygrade E4 E4 E5 E5	Task Type CORE CORE CORE	LIGH Task Statements Clean lighting system com Inspect lighting system com Repair lighting system com Test lighting system components	on analysis equipment Operation and Control Operation Monitoring TING SYSTEMS Skills ponents Equipment Maintenance Management of Material Resources inponents Operation Monitoring Quality Control Analysis inponents Repairing Equipment Selection conents Operation Monitoring Quality Control Analysis inponents Operation Monitoring Quality Control Analysis em components Troubleshooting	Arm-Hand Steadiness Manual Dexterity Abilities Near Vision Finger Dexterity Near Vision Written Comprehension Finger Dexterity Near Vision Problem Sensitivity Manual Dexterity Deductive Reasoning
Paygrade E4 E4 E5 E5	Task Type CORE CORE CORE	Task Statements Clean lighting system com Inspect lighting system com Repair lighting system com Test lighting system compounts Troubleshoot lighting system	on analysis equipment Operation and Control Operation Monitoring TING SYSTEMS Skills ponents Equipment Maintenance Management of Material Resources inponents Operation Monitoring Quality Control Analysis inponents Repairing Equipment Selection conents Operation Monitoring Quality Control Analysis components Operation Monitoring Quality Control Analysis em components	Arm-Hand Steadiness Manual Dexterity Abilities Near Vision Finger Dexterity Near Vision Written Comprehension Finger Dexterity Near Vision Problem Sensitivity Manual Dexterity
Pavgrade E4 E4 E5 E5 E5	Task Type CORE CORE CORE CORE CORE	LIGH Task Statements Clean lighting system com Inspect lighting system com Repair lighting system com Test lighting system composite to the c	on analysis equipment Operation and Control Operation Monitoring TING SYSTEMS Skills ponents Equipment Maintenance Management of Material Resources inponents Operation Monitoring Quality Control Analysis inponents Repairing Equipment Selection inents Operation Monitoring Quality Control Analysis inponents Toperation Monitoring Operation Monitoring Complex Problem Solving AND GENERATORS	Arm-Hand Steadiness Manual Dexterity Abilities Near Vision Finger Dexterity Near Vision Written Comprehension Finger Dexterity Near Vision Problem Sensitivity Manual Dexterity Deductive Reasoning Fluency of Ideas
Paygrade E4 E4 E5 E5	Task Type CORE CORE CORE	Task Statements Clean lighting system com Inspect lighting system com Repair lighting system com Test lighting system compounts Troubleshoot lighting system	on analysis equipment Operation and Control Operation Monitoring TING SYSTEMS Skills ponents Equipment Maintenance Management of Material Resources inponents Operation Monitoring Quality Control Analysis inponents Repairing Equipment Selection onents Operation Monitoring Quality Control Analysis inponents Toubleshooting Complex Problem Solving AND GENERATORS Skills ging assemblies	Arm-Hand Steadiness Manual Dexterity Abilities Near Vision Finger Dexterity Near Vision Written Comprehension Finger Dexterity Near Vision Problem Sensitivity Manual Dexterity Deductive Reasoning Fluency of Ideas
Paygrade E4 E5 E5 E5 E5	Task Type CORE CORE CORE CORE CORE	LIGH Task Statements Clean lighting system com Inspect lighting system com Repair lighting system com Test lighting system composite to the c	on analysis equipment Operation and Control Operation Monitoring TING SYSTEMS Skills ponents Equipment Maintenance Management of Material Resources mponents Operation Monitoring Quality Control Analysis aponents Repairing Equipment Selection onents Operation Monitoring Quality Control Analysis aponents Touches Selection onents Troubleshooting Complex Problem Solving AND GENERATORS Skills	Arm-Hand Steadiness Manual Dexterity Abilities Near Vision Finger Dexterity Near Vision Written Comprehension Finger Dexterity Near Vision Problem Sensitivity Manual Dexterity Deductive Reasoning Fluency of Ideas

E4	CORE	Adjust brush spring tension	
		Systems Evaluation	Arm-Hand Steadiness
		Operation Monitoring	Manual Dexterity
E5	CORE	Adjust motor controller operating set points and limits	a
		Systems Evaluation	Control Precision
E5	CORE	Operation Monitoring Adjust motor controller standby features	Speed of Limb Movement
E3	CORE	Systems Evaluation	Arm-Hand Steadiness
		Operation Monitoring	Manual Dexterity
E4	CORE	Clean brush rigging assemblies	Translate Delice try
		Equipment Maintenance	Near Vision
		Management of Material Resources	Finger Dexterity
E4	CORE	Clean Alternating Current (AC) motor components	
		Equipment Maintenance	Near Vision
		Management of Material Resources	Finger Dexterity
E4	CORE	Clean motor controller cabinets	
		Equipment Maintenance	Near Vision
E4	CORE	Management of Material Resources	Finger Dexterity
E4	CORE	Clean motor controller operating mechanisms Equipment Maintenance	Near Vision
		Equipment Maintenance Management of Material Resources	Finger Dexterity
E4	CORE	Inspect brush rigging assemblies	Tinger Desiettiy
L.	CORE	Operation Monitoring	Near Vision
		Quality Control Analysis	Written Comprehension
E4	CORE	Inspect Alternating Current (AC) motor components	1
		Operation Monitoring	Near Vision
		Quality Control Analysis	Written Comprehension
E4	CORE	Inspect motor controller operating mechanisms	
		Operation Monitoring	Near Vision
		Quality Control Analysis	Written Comprehension
E4	CORE	Inspect motor controller wiring and connections	37 17
		Operation Monitoring	Near Vision
E5	CORE	Quality Control Analysis Perform emergency diesel generator maintenance	Written Comprehension
E3	CORE	Equipment Maintenance	Arm-Hand Steadiness
		Equipment Selection	Manual Dexterity
E4	CORE	Perform motor generator maintenance	таний Веменну
		Equipment Maintenance	Arm-Hand Steadiness
		Equipment Selection	Manual Dexterity
E5	CORE	Perform turbine generator maintenance	
		Equipment Maintenance	Arm-Hand Steadiness
		Equipment Selection	Manual Dexterity
E4	CORE	Repair Alternating Current (AC) motor components	·
		Repairing Forigon of School and	Finger Dexterity
E5	CORE	Equipment Selection Repair motor controllers	Near Vision
E3	CORE	Repair motor controllers Repairing	Finger Dexterity
		Equipment Selection	Near Vision
E4	CORE	Seat brushes	Treat vision
		Equipment Selection	Arm-Hand Steadiness
		Management of Material Resources	Finger Dexterity
E4	CORE	Test Alternating Current (AC) motor components	
		Operation Monitoring	Problem Sensitivity
		Quality Control Analysis	Manual Dexterity
E5	CORE	Test emergency diesel generators	5 11 6 11 1
		Operation Monitoring	Problem Sensitivity
E5	CODE	Quality Control Analysis Test motor generators	Manual Dexterity
E5	CORE	Test motor generators Operation Monitoring	Problem Sensitivity
		Quality Control Analysis	Manual Dexterity
E5	CORE	Test turbine generators	munu Denterny
	COILL	Operation Monitoring	Problem Sensitivity
		Quality Control Analysis	Manual Dexterity
E4	CORE	Troubleshoot Alternating Current (AC) motor components	*
		Troubleshooting	Deductive Reasoning
		Complex Problem Solving	Fluency of Ideas

POWER DISTRIBUTION

<u>Paygrade</u> E4	<u>Task Type</u> CORE	Task Statements Skills Analyze shutdown electric plant trends	<u>Abilities</u>
		Judgment and Decision Making Systems Analysis	Deductive Reasoning Speed of Closure
E4	CORE	Clean Automatic Bus Transfer (ABT) devices Equipment Maintenance	Near Vision
E4	CORE	Management of Material Resources Clean circuit breaker cabinets	Finger Dexterity
£4	CORE	Equipment Maintenance	Near Vision
E4	CORE	Management of Material Resources Clean Arc-Fault Detector (AFD) components	Finger Dexterity
		Equipment Maintenance Management of Material Resources	Near Vision Finger Dexterity
E4	CORE	Clean Manual Bus Transfer (MBT) devices Equipment Maintenance	Near Vision
E4	CORE	Management of Material Resources Clean switchboard components	Finger Dexterity
		Equipment Maintenance	Near Vision
E4	CORE	Management of Material Resources Clean switchboard interiors	Finger Dexterity
2.	CORE	Equipment Maintenance	Near Vision
		Management of Material Resources	Finger Dexterity
E4	CORE	Conduct 4160 Volt (4160V) maintenance	Maan Vinian
		Equipment Maintenance Equipment Selection	Near Vision Finger Dexterity
E5	CORE	Conduct switchboard testing	1 inger Desiertly
		Equipment Maintenance	Problem Sensitivity
		Quality Control Analysis	Written Comprehension
E4	CORE	Inspect Automatic Bus Transfer (ABT) devices	37 77 1
		Operation Monitoring	Near Vision Written Comprehension
E4	CORE	Quality Control Analysis Inspect Arc-Fault Detector (AFD) components	Written Comprehension
2.	COLL	Operation Monitoring	Near Vision
		Quality Control Analysis	Written Comprehension
E4	CORE	Inspect Manual Bus Transfer (MBT) devices	
		Operation Monitoring	Near Vision
E4	CORE	Quality Control Analysis Inspect switchboard components	Written Comprehension
L+	CORL	Operation Monitoring	Near Vision
		Quality Control Analysis	Written Comprehension
E4	CORE	Operate coolant pumping power switchgear	
		Operation and Control	Arm-Hand Steadiness
E4	CORE	Operation Monitoring Operate electric plant during reactor shutdowns	Manual Dexterity
L/+	CORE	Operation and Control	Arm-Hand Steadiness
		Operation Monitoring	Manual Dexterity
E4	CORE	Operate electric plant during reactor startups	Ž
		Operation and Control	Arm-Hand Steadiness
E4	CORE	Operation Monitoring Operate electric plants during normal operating conditions	Manual Dexterity
E/4	COKE	Operation and Control	Arm-Hand Steadiness
		Operation Monitoring	Manual Dexterity
E4	CORE	Operate emergency distribution switchboards	Ž
		Operation and Control	Arm-Hand Steadiness
E4	CORE	Operation Monitoring	Manual Dexterity
E4	CORE	Operate propulsion plant load centers Operation and Control	Arm-Hand Steadiness
		Operation Monitoring	Manual Dexterity
E5	CORE	Operate electric plant system on a shutdown reactor	
		Operation and Control	Arm-Hand Steadiness
F.5	COPE	Operation Monitoring	Manual Dexterity
E5	CORE	Perform casualty power system operations	Trunk Strangth
		Operation and Control Operation Monitoring	Trunk Strength Manual Dexterity
E4	CORE	Recover from loss of shore power	
		Coordination	Deductive Reasoning
		Equipment Selection	Manual Dexterity

E5	CORE	Repair Automatic Bus Transfer (ABT) devices	
		Repairing	Finger Dexterity
		Equipment Selection	Near Vision
E5	CORE	Repair Arc-Fault Detector (AFD) components	
		Repairing	Finger Dexterity
		Equipment Selection	Near Vision
E5	CORE	Repair Manual Bus Transfer (MBT) devices	
		Repairing	Finger Dexterity
		Equipment Selection	Near Vision
E5	CORE	Repair switchboard components	
		Repairing	Finger Dexterity
		Equipment Selection	Near Vision
E5	CORE	Test Automatic Bus Transfer (ABT) devices	
		Operation Monitoring	Problem Sensitivity
		Quality Control Analysis	Manual Dexterity
E5	CORE	Test components of Arc-Fault Detector (AFD) systems	
		Operation Monitoring	Problem Sensitivity
		Quality Control Analysis	Manual Dexterity
E5	CORE	Test Manual Bus Transfer (MBT) devices	
		Operation Monitoring	Problem Sensitivity
		Quality Control Analysis	Manual Dexterity
E5	CORE	Troubleshoot Automatic Bus Transfer (ABT) devices	
		Troubleshooting	Deductive Reasoning
		Complex Problem Solving	Fluency of Ideas
E5	CORE	Troubleshoot Arc-Fault Detector (AFD) components	
		Troubleshooting	Deductive Reasoning
		Complex Problem Solving	Fluency of Ideas
E5	CORE	Troubleshoot Manual Bus Transfer (MBT) devices	
		Troubleshooting	Deductive Reasoning
		Complex Problem Solving	Fluency of Ideas

REACTOR PLANT ASSOCIATED EQUIPMENT

Paygrade	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Check primary valve pos	itions	
			Equipment Maintenance	Manual Dexterity
			Quality Control Analysis	Written Comprehension
E4	CORE	Classify primary valves		
			Reading Comprehension	Written Comprehension
			Systems Analysis	Written Expression
E4	CORE	Clean Interior Communic		
			Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Clean throttle control ele	•	
			Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Conduct system evolution	ns which may cause discharge overboard	
			Systems Analysis	Problem Sensitivity
			Operation and Control	Written Comprehension
E4	CORE	Conduct primary valve o	peration radiological surveys	
			Equipment Maintenance	Problem Sensitivity
			Quality Control Analysis	Written Comprehension
E4	CORE	Control access to Radiolo	ogical Controlled Areas (RCA)	
			Speaking	Oral Expression
			Writing	Written Expression
E5	CORE	Control remote operabili	•	
			Speaking	Oral Expression
			Equipment Maintenance	Time Sharing
E4	CORE	Disestablish Radiologica	l Controlled Areas (RCA)	
			Speaking	Oral Expression
			Writing	Written Expression
E4	CORE	Establish Radiological C	, ,	
			Speaking	Oral Expression
			Writing	Written Expression
E4	CORE	Issue self-indicating poch		
			Management of Material Resources	Finger Dexterity
			Operation Monitoring	Written Expression
E4	CORE	Maintain Radiological Co	ontrolled Area (RCA) records	
			Reading Comprehension	Written Comprehension
			Writing	Written Expression

E4	CORE	Operate primary valves		
			Operation and Control	Arm-Hand Steadiness
			Operation Monitoring	Manual Dexterity
E5	CORE	Operate shutdown reactor	r plant systems	
			Operation and Control	Arm-Hand Steadiness
			Operation Monitoring	Manual Dexterity
E4	CORE	Perform Radiological Co	ntrolled Area (RCA) casualty surveys	
			Judgment and Decision Making	Written Comprehension
			Writing	Written Expression
E4	CORE	Perform reactor plant val	ve line-ups	
			Coordination	Arm-Hand Steadiness
			Quality Control Analysis	Control Precision
		CT.	HID OF CLIPITAL	

SHIP SECURITY

<u>Paygrade</u>	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Monitor spaces for securi	ty below decks	
			Time Management	Deductive Reasoning
			Critical Thinking	Spatial Orientation

STEAM PLANT ASSOCIATED EQUIPMENT

Paygrade	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
E5	CORE	Adjust hotwell level cont	rol system set points	
		-	Systems Evaluation	Auditory Attention
			Operation Monitoring	Reaction Time
E4	CORE	Adjust salinity indicating	system set points	
		, ,	Systems Evaluation	Auditory Attention
			Operation Monitoring	Reaction Time
E4	CORE	Adjust temperature monit	toring system set points	
		J 1	Systems Evaluation	Auditory Attention
			Operation Monitoring	Reaction Time
E4	CORE	Analyze main engine pres	ssure and temperature parameter trends	
		, , ,	Judgment and Decision Making	Deductive Reasoning
			Systems Analysis	Speed of Closure
E5	CORE	Clean generator governor		
		8	Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Clean hotwell level contr		
			Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Clean salinity cells		
			Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Clean salinity indicating		
		,	Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Clean temperature monitor		1 mger Bemermy
			Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E4	CORE	Clean vent fog precipitate		
		31	Equipment Maintenance	Near Vision
			Management of Material Resources	Finger Dexterity
E5	CORE	Inspect generator governo	or system electrical components	
			Operation Monitoring	Near Vision
			Quality Control Analysis	Written Comprehension
E4	CORE	Inspect hotwell level con-		r
			Operation Monitoring	Near Vision
			Quality Control Analysis	Written Comprehension
E4	CORE	Inspect salinity indicating		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		, i i i i i i i i i i i i i i i i i i i	Operation Monitoring	Near Vision
			Quality Control Analysis	Written Comprehension
E4	CORE	Inspect temperature moni		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
= =		-F	Operation Monitoring	Near Vision
			Quality Control Analysis	Written Comprehension
E4	CORE	Inspect vent fog precipita	~ :	T. I.
= =		-F 108 breedhaa	Operation Monitoring	Near Vision
			Quality Control Analysis	Written Comprehension
			£, co	

E4	CORE	Operate main engines	
		Operation and Control	Arm-Hand Steadiness
E4	CODE	Operation Monitoring	Manual Dexterity
E4	CORE	Operate salinity indicating systems	A Hand Chardinasa
		Operation and Control Operation Monitoring	Arm-Hand Steadiness Manual Dexterity
E4	CORE	Operate temperature monitoring systems	тапиа Вехіеніу
LT	CORL	Operation and Control	Arm-Hand Steadiness
		Operation Monitoring	Manual Dexterity
E5	CORE	Repair generator governor electrical components	
		Repairing	Finger Dexterity
		Equipment Selection	Near Vision
E5	CORE	Repair hotwell level control systems	
		Repairing	Finger Dexterity
		Equipment Selection	Near Vision
E5	CORE	Repair salinity indicating systems	
		Repairing	Finger Dexterity
		Equipment Selection	Near Vision
E5	CORE	Repair temperature monitoring systems	
		Repairing	Finger Dexterity
		Equipment Selection	Near Vision
E4	CORE	Repair vent fog precipitators	
		Repairing	Finger Dexterity
E.f.	CORE	Equipment Selection	Near Vision
E5	CORE	Test generator governor system electrical components Operation Monitoring	Duckley Consitinity
		Operation Monitoring Quality Control Analysis	Problem Sensitivity Manual Dexterity
E5	CORE	Test hotwell level control systems	тапиа Бехіеніу
EJ	CORE	Operation Monitoring	Problem Sensitivity
		Quality Control Analysis	Manual Dexterity
E5	CORE	Test salinity indicating systems	manual Desicrity
20	COLL	Operation Monitoring	Problem Sensitivity
		Quality Control Analysis	Manual Dexterity
E5	CORE	Test temperature monitoring systems	
		Operation Monitoring	Problem Sensitivity
		Quality Control Analysis	Manual Dexterity
E4	CORE	Test vent fog precipitators	•
		Operation Monitoring	Problem Sensitivity
		Quality Control Analysis	Manual Dexterity
E5	CORE	Troubleshoot of generator governor electrical components	
		Troubleshooting	Deductive Reasoning
		Complex Problem Solving	Fluency of Ideas
E5	CORE	Troubleshoot hotwell level control systems	_
		Troubleshooting	Deductive Reasoning
77.5	CORE	Complex Problem Solving	Fluency of Ideas
E5	CORE	Troubleshoot salinity indicating systems	D 1 .: D .:
		Troubleshooting	Deductive Reasoning
D.F.	CORE	Complex Problem Solving	Fluency of Ideas
E5	CORE	Troubleshoot temperature monitoring systems Troubleshooting	Deductive Peasening
		Complex Problem Solving	Deductive Reasoning Fluency of Ideas
E4	CORE	Troubleshoot vent fog precipitators	r wency of weas
LT	CORL	Troubleshooting	Deductive Reasoning
		Complex Problem Solving	Fluency of Ideas
		Somplex I roblem Solving	1 mene, of mens

TECHNICAL ADMINISTRATION

Paygrade	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
E5	CORE	Create Quality Assurance	(QA) packages	
			Reading Comprehension	Written Comprehension
			Writing	Written Expression
E5	CORE	Manage performance data	collection	
			Reading Comprehension	Written Comprehension
			Writing	Written Expression
E5	CORE	Perform Quality Assurance	ce (QA) testing	_
			Operation Monitoring	Written Comprehension
			Quality Control Analysis	Written Expression

E4	CORE	Perform reactor plant component tag outs	
		Reading Compreh	nension Written Comprehension
		Writing	Written Expression
E5	CORE	Perform remote operability checklists	
		Reading Compreh	nension Written Comprehension
		Writing	Written Expression
E4	CORE	Safeguard Naval Nuclear Propulsion Informat	ion (NNPI)
		Reading Compreh	nension Information Ordering
		Writing	Written Comprehension

Job Title Job Code **Surface Propulsion Plant Electrical Supervisor** 003786

NOC **Short Title (30 Characters)** Job Family **Short Title (10 Characters)**

Production 5100-8013.00 SUR PROPULSION PLANT ELECT SUP SW PPE SUP

Pay Plan Career Field **Proficiency Level** Other Relationships and Rules:

Enlisted EM(NUC)

Job Description

Surface Propulsion Plant Electrical Supervisors perform advanced electrical distribution operations and apply advanced level maintenance practices to electrical distribution systems and electrical generators. They supervise operations, maintenance, and training for personnel assigned to the reactor electrical division. They draft correspondence and develop administrative programs to support the division. Electrical Supervisors perform the critical work functions required to move naval tactical forces, repair and maintain equipment, train forces and personnel, and perform consequence management.

DoD Relationship O*NET Relationship

Title and Group: Code and Area: Title and SOC Code: Name and Family Code:

Nuclear Power 166100 Power Plant Operators Production 166

51-8013.00 16

AUXILIARY ELECTRICAL EQUIPMENT

Paygrade	Task Type	Task Statements	<u>Skills</u>	Abilities
E6	CORE	Troubleshoot control p	panels	
			Troubleshooting	Deductive Reasoning
			Complex Problem Solving	Fluency of Ideas
E6	CORE	Troubleshoot electrica	l circuits	
			Troubleshooting	Deductive Reasoning
			Complex Problem Solving	Fluency of Ideas

CASUALTY CONTROL

Paygrade	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
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E6 CORE Coordinate shutdown watch section casualty operations

CoordinationInductive Reasoning

Judgment and Decision Making Deductive Reasoning

CIRCUIT BREAKERS

Paygrade	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
E6	CORE	Test circuit breakers		
			0 1 16 1 1	D 11 G

Problem Sensitivity Operation Monitoring Manual Dexterity Quality Control Analysis

CORE E6 Troubleshoot circuit breakers

Troubleshooting Deductive Reasoning Complex Problem Solving Fluency of Ideas

HOUSEKEEPING AND MACHINERY ANALYSIS

Paygrade Task Type **Task Statements Abilities CORE** Analyze surface machinery vibration analysis data

Judgment and Decision Making Deductive Reasoning Systems Analysis Speed of Closure

MOTORS AND GENERATORS

Paygrade	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
E6	CORE	Repair emergency diesel	generators	
			Repairing	Finger Dexterity
			Equipment Selection	Near Vision
E6	CORE	Repair motor generators		
			Repairing	Finger Dexterity
			Equipment Selection	Near Vision

E6	CORE	Repair turbine generators						
			Repairing	Finger Dexterity				
			Equipment Selection	Near Vision				
E6	CORE	Test motor controllers						
			Operation Monitoring	Problem Sensitivity				
			Quality Control Analysis	Manual Dexterity				
E6	CORE	Troubleshoot emergency diesel generators						
			Troubleshooting	Deductive Reasoning				
			Complex Problem Solving	Fluency of Ideas				
E6	CORE	Troubleshoot motor contr	shoot motor controllers					
			Troubleshooting	Deductive Reasoning				
			Complex Problem Solving	Fluency of Ideas				
E6	CORE	Troubleshoot motor generators						
			Troubleshooting	Deductive Reasoning				
			Complex Problem Solving	Fluency of Ideas				
E6	CORE	Troubleshoot turbine generators						
			Troubleshooting	Deductive Reasoning				
			Complex Problem Solving	Fluency of Ideas				
POWER DISTRIBUTION								
Pavgrade	Task Type	Task Statements	Skills	Abilities				
E6	CORE	Troubleshoot switchboard						
Lo	CORL	Troubleshoot switchboard	Troubleshooting	Deductive Reasoning				
			Complex Problem Solving	Fluency of Ideas				
			Complex I roblem bolving	i mency of rueus				

REACTOR PLANT ASSOCIATED EQUIPMENT

<u>Paygrade</u>	Task Type	Task Statements	<u>Skills</u>	Abilities	
E5	CORE	Analyze shutdown reactor plant trends			
			Judgment and Decision Making	Deductive Reasoning	
			Systems Analysis	Speed of Closure	
E6	CORE	Verify prevention of inadvertent discharge conditions			
			Reading Comprehension	Information Ordering	
			Operation and Control	Time Sharing	

TECHNICAL ADMINISTRATION

Paygrade	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>		
E6	CORE	Audit Quality Assurance (QA) packages				
			Quality Control Analysis	Written Comprehension		
			Reading Comprehension	Written Expression		
E6	CORE	Conduct remote operability training				
			Instructing	Oral Expression		
			Speaking	Written Expression		
E6	CORE	Review Quality Assurance (QA) packages				
			Reading Comprehension	Written Comprehension		
			Writing	Written Expression		
E6	CORE	Supervise electrical division maintenance				
			Equipment Maintenance	Deductive Reasoning		
			Monitoring	Inductive Reasoning		

Job Title Job Code **Surface Propulsion Plant Electrical Manager** 003794

Job Family **NOC Short Title (30 Characters)** Short Title (10 Characters)

5100-8013.00 SUR PROPULSION PLANT ELECT MGR SW PPE MGR Production

Pay Plan Career Field **Proficiency Level** Other Relationships and Rules:

NEC 3394 Enlisted EM(NUC)

Job Description

E7

Surface Propulsion Plant Electrical Managers manage operations, maintenance, and training for personnel assigned to reactor electrical division and/or reactor department. They coordinate the departmental electrical safety program, review divisional and/or departmental correspondence, and perform audits of divisional and/or departmental programs. Electrical Managers perform the critical work functions required to train forces and personnel, repair and maintain equipment, move naval tactical forces, and perform consequence management.

DoD Relationship O*NET Relationship

Title and Group: Code and Area: Title and SOC Code: Name and Family Code:

166100 Nuclear Power Power Plant Operators Production 166

51-8013.00 16

CASUALTY CONTROL

Paygrade Task Type **Task Statements** Skills Abilities CORE Supervise casualty electrical distribution operations

> Equipment Maintenance Deductive Reasoning

Monitoring Inductive Reasoning

ELECTRICAL INSTALLATIONS

Paygrade Task Type **Task Statements Skills Abilities CORE**

Coordinate equipment modifications Installation Visualization

Coordination Deductive Reasoning

POWER DISTRIBUTION

Task Type Task Statements **Paygrade Skills** Abilities

CORE Supervise 4160 Volt (4160V) maintenance

> Equipment Maintenance Deductive Reasoning Monitoring Inductive Reasoning

REACTOR PLANT ASSOCIATED EQUIPMENT

Task Type **Abilities Task Statements Paygrade Skills**

CORE Pre-Check discharge boundary valves Manual Dexterity

Equipment Maintenance Quality Control Analysis Written Comprehension

Written Comprehension

TECHNICAL ADMINISTRATION

Task Type **Abilities Paygrade Task Statements Skills** E7 CORE Audit electrical division records Quality Control Analysis Written Comprehension

Reading Comprehension Written Expression

CORE Audit engineering department records

Quality Control Analysis

Reading Comprehension Written Expression

E7 **CORE** Coordinate reactor fill electrical division testing

Coordination Inductive Reasoning

Judgment and Decision Making Deductive Reasoning E7 **CORE** Supervise Quality Assurance (QA) testing

Equipment Maintenance Deductive Reasoning

> Monitoring Inductive Reasoning